

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-19

[TEST DATE] 2/23/2024

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

[LUMCAT] FS-8-LS-8CS-DIM-UNV_63W_5000K_

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

[MORE] WITH FROSTED ACRYLIC LENS

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

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9099
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	64.6
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	19250	11678	10834
55	17408	9612	9066
65	15172	7576	7367
75	12213	5544	5619
85	7686	3648	3974

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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	2863.420	2863.420	2863.420	2863.420	2863.420	2863.420	2863.420	2863.420	2863.420
0.5	2825.743	2874.501	2867.852	2867.852	2854.554	2870.068	2867.852	2878.933	2827.959
1.0	2823.527	2872.285	2863.420	2870.068	2852.338	2870.068	2863.420	2876.717	2827.959
1.5	2827.959	2872.285	2858.987	2867.852	2854.554	2870.068	2863.420	2874.501	2827.959
2.0	2827.959	2870.068	2863.420	2870.068	2852.338	2874.501	2863.420	2876.717	2825.743
2.5	2825.743	2867.852	2858.987	2867.852	2852.338	2865.636	2863.420	2872.285	2821.310
3.0	2819.094	2867.852	2856.771	2867.852	2852.338	2867.852	2861.203	2874.501	2821.310
3.5	2821.310	2863.420	2854.554	2861.203	2847.906	2863.420	2858.987	2867.852	2823.527
4.0	2814.662	2858.987	2850.122	2863.420	2850.122	2861.203	2856.771	2870.068	2816.878
4.5	2816.878	2852.338	2850.122	2858.987	2845.689	2861.203	2852.338	2865.636	2812.445
5.0	2805.797	2850.122	2843.473	2856.771	2845.689	2858.987	2850.122	2861.203	2812.445
5.5	2803.580	2850.122	2841.257	2854.554	2845.689	2856.771	2850.122	2856.771	2805.797
6.0	2799.148	2843.473	2836.824	2852.338	2839.041	2852.338	2843.473	2856.771	2803.580
6.5	2794.715	2839.041	2834.608	2845.689	2834.608	2850.122	2841.257	2852.338	2799.148
7.0	2788.066	2832.392	2830.176	2839.041	2830.176	2845.689	2839.041	2850.122	2801.364
7.5	2785.850	2830.176	2823.527	2839.041	2825.743	2841.257	2832.392	2845.689	2792.499
8.0	2781.418	2823.527	2819.094	2832.392	2825.743	2839.041	2830.176	2841.257	2788.066
8.5	2774.769	2816.878	2812.445	2825.743	2816.878	2832.392	2825.743	2834.608	2779.201
9.0	2770.336	2810.229	2803.580	2823.527	2812.445	2825.743	2819.094	2832.392	2774.769
9.5	2757.039	2803.580	2803.580	2819.094	2808.013	2823.527	2814.662	2823.527	2768.120
10.0	2754.822	2801.364	2792.499	2805.797	2805.797	2816.878	2810.229	2819.094	2765.904
10.5	2739.309	2788.066	2788.066	2805.797	2794.715	2812.445	2803.580	2810.229	2754.822
11.0	2737.092	2785.850	2781.418	2796.931	2790.283	2805.797	2792.499	2799.148	2754.822
11.5	2728.227	2774.769	2772.553	2790.283	2785.850	2796.931	2788.066	2796.931	2743.741
12.0	2719.362	2765.904	2768.120	2783.634	2776.985	2792.499	2779.201	2788.066	2732.660
12.5	2708.281	2757.039	2759.255	2779.201	2776.985	2781.418	2772.553	2776.985	2728.227
13.0	2703.848	2752.606	2748.174	2770.336	2768.120	2776.985	2765.904	2772.553	2714.930
13.5	2697.199	2741.525	2743.741	2759.255	2759.255	2768.120	2759.255	2765.904	2706.064
14.0	2683.902	2730.443	2732.660	2752.606	2750.390	2761.471	2748.174	2757.039	2697.199
14.5	2668.388	2719.362	2721.578	2743.741	2741.525	2750.390	2741.525	2748.174	2690.551
15.0	2661.739	2712.713	2717.146	2739.309	2732.660	2743.741	2730.443	2737.092	2679.469
15.5	2652.874	2706.064	2703.848	2728.227	2723.795	2732.660	2723.795	2726.011	2670.604
16.0	2646.225	2690.551	2694.983	2721.578	2712.713	2723.795	2710.497	2717.146	2655.090
16.5	2626.279	2681.686	2681.686	2712.713	2703.848	2714.930	2699.416	2706.064	2652.874
17.0	2615.197	2670.604	2675.037	2701.632	2694.983	2701.632	2690.551	2697.199	2637.360
17.5	2604.116	2657.307	2661.739	2688.334	2683.902	2690.551	2677.253	2688.334	2630.711
18.0	2597.467	2641.793	2648.441	2675.037	2675.037	2677.253	2668.388	2670.604	2617.414
18.5	2584.170	2632.928	2637.360	2668.388	2663.955	2668.388	2655.090	2661.739	2606.332
19.0	2566.440	2619.630	2624.063	2655.090	2650.658	2657.307	2646.225	2648.441	2593.035
19.5	2557.574	2608.549	2612.981	2644.009	2637.360	2644.009	2635.144	2637.360	2577.521
20.0	2544.277	2593.035	2599.684	2630.711	2626.279	2635.144	2621.846	2624.063	2566.440
20.5	2528.763	2579.737	2588.602	2619.630	2615.197	2619.630	2610.765	2610.765	2555.358
21.0	2517.682	2566.440	2573.088	2604.116	2601.900	2610.765	2593.035	2601.900	2537.628
21.5	2499.951	2553.142	2559.791	2590.818	2593.035	2599.684	2584.170	2586.386	2526.547
22.0	2488.870	2542.061	2548.709	2577.521	2579.737	2584.170	2570.872	2573.088	2513.249
22.5	2468.924	2522.114	2533.195	2566.440	2570.872	2577.521	2557.574	2557.574	2495.519
23.0	2455.626	2508.817	2519.898	2550.926	2557.574	2562.007	2546.493	2544.277	2486.654
23.5	2444.545	2493.303	2508.817	2539.844	2548.709	2555.358	2533.195	2530.979	2471.140
24.0	2422.382	2480.005	2493.303	2526.547	2535.412	2542.061	2519.898	2511.033	2448.977
24.5	2413.517	2466.707	2477.789	2515.465	2524.330	2530.979	2504.384	2497.735	2435.680
25.0	2395.787	2444.545	2464.491	2504.384	2517.682	2519.898	2491.086	2484.438	2422.382
25.5	2375.840	2431.247	2444.545	2493.303	2506.600	2506.600	2480.005	2471.140	2409.084
26.0	2358.110	2417.949	2431.247	2475.572	2493.303	2493.303	2464.491	2455.626	2389.138
26.5	2342.596	2398.003	2417.949	2466.707	2482.221	2480.005	2448.977	2437.896	2375.840

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27.0	2329.299	2382.489	2404.652	2451.194	2464.491	2466.707	2433.463	2422.382	2358.110
27.5	2309.352	2369.192	2389.138	2440.112	2453.410	2451.194	2420.166	2406.868	2340.380
28.0	2293.838	2347.029	2369.192	2426.815	2442.328	2437.896	2402.436	2389.138	2324.866
28.5	2278.325	2331.515	2355.894	2411.301	2429.031	2424.598	2389.138	2373.624	2309.352
29.0	2260.594	2313.785	2340.380	2398.003	2415.733	2409.084	2373.624	2358.110	2289.406
29.5	2242.864	2298.271	2324.866	2382.489	2400.219	2395.787	2360.327	2338.164	2271.676
30.0	2220.702	2280.541	2309.352	2366.975	2386.922	2382.489	2342.596	2322.650	2251.729
30.5	2203.193	2262.811	2291.622	2353.678	2373.624	2366.975	2327.082	2304.920	2233.999
31.0	2184.576	2242.864	2276.108	2338.164	2360.327	2353.678	2309.352	2287.190	2220.702
31.5	2170.614	2222.918	2260.594	2322.650	2344.813	2340.380	2296.055	2269.459	2196.766
32.0	2147.343	2209.177	2242.864	2309.352	2331.515	2327.082	2280.541	2251.729	2180.365
32.5	2132.272	2189.231	2225.134	2293.838	2318.217	2311.569	2260.594	2231.783	2165.073
33.0	2110.553	2171.500	2205.631	2280.541	2307.136	2298.271	2242.864	2212.280	2140.251
33.5	2091.050	2152.662	2189.009	2267.243	2291.622	2280.541	2227.350	2195.214	2124.515
34.0	2073.320	2134.045	2176.155	2249.513	2278.325	2267.243	2213.166	2178.592	2108.337
34.5	2052.708	2113.213	2157.316	2233.999	2265.027	2251.729	2195.658	2156.208	2085.731
35.0	2036.530	2095.261	2141.581	2220.702	2249.513	2236.215	2179.036	2138.921	2070.882
35.5	2016.362	2074.649	2125.845	2206.296	2238.432	2220.702	2160.197	2118.088	2046.946
36.0	1992.647	2053.373	2106.785	2190.560	2222.918	2208.734	2142.467	2099.693	2030.989
36.5	1972.036	2034.978	2092.158	2174.160	2209.842	2192.555	2126.067	2080.412	2012.594
37.0	1956.079	2013.924	2072.212	2161.749	2196.323	2177.928	2107.672	2061.130	1997.302
37.5	1934.803	1996.637	2056.033	2145.570	2181.917	2160.419	2092.823	2043.400	1978.020
38.0	1911.975	1976.469	2037.638	2131.164	2167.733	2144.905	2075.093	2025.227	1955.193
38.5	1893.580	1956.301	2022.789	2114.986	2151.776	2129.613	2055.590	2007.275	1933.473
39.0	1871.418	1934.803	2004.172	2099.250	2136.705	2113.656	2040.076	1989.988	1912.419
39.5	1850.363	1913.083	1987.328	2082.850	2122.964	2098.142	2021.237	1970.485	1887.818
40.0	1827.757	1895.575	1969.820	2067.779	2110.110	2084.179	2003.729	1952.533	1864.769
40.5	1808.697	1875.628	1952.533	2051.822	2093.044	2068.222	1986.442	1929.705	1843.049
41.0	1784.540	1853.244	1934.138	2037.194	2075.979	2052.708	1968.712	1909.537	1821.330
41.5	1764.593	1831.303	1919.067	2022.124	2064.455	2035.200	1949.652	1885.380	1799.389
42.0	1741.544	1811.800	1899.786	2005.502	2049.162	2022.789	1932.143	1862.552	1779.664
42.5	1720.933	1790.967	1881.391	1990.874	2034.535	2005.059	1912.419	1842.163	1757.945
43.0	1698.770	1772.572	1863.661	1974.252	2019.464	1987.993	1895.797	1817.784	1736.225
43.5	1679.489	1753.512	1845.044	1957.630	2005.945	1971.593	1879.396	1796.286	1717.165
44.0	1660.650	1730.906	1827.757	1943.003	1990.653	1957.409	1859.228	1773.237	1694.338
44.5	1634.277	1709.630	1806.481	1925.938	1975.361	1942.338	1844.157	1752.847	1674.170
45.0	1614.995	1688.575	1791.853	1910.424	1960.290	1923.278	1826.649	1729.798	1653.337
45.5	1595.049	1667.964	1771.242	1894.024	1942.117	1909.094	1808.254	1711.181	1632.504
46.0	1573.108	1650.456	1754.177	1876.072	1927.046	1893.802	1790.967	1689.240	1609.011
46.5	1553.826	1629.623	1735.117	1857.677	1912.640	1875.185	1773.237	1669.515	1589.730
47.0	1531.220	1607.238	1717.165	1844.601	1896.683	1862.331	1756.836	1649.126	1569.783
47.5	1509.058	1587.292	1698.770	1826.206	1882.499	1846.595	1738.885	1628.071	1544.296
48.0	1491.771	1566.681	1681.927	1813.130	1864.325	1826.427	1721.376	1606.795	1527.009
48.5	1467.613	1546.069	1663.753	1792.962	1849.920	1811.578	1703.203	1586.405	1501.522
49.0	1453.429	1528.782	1646.910	1777.669	1833.963	1795.400	1684.364	1566.681	1481.576
49.5	1434.369	1505.733	1628.958	1761.491	1816.676	1779.886	1661.315	1544.740	1461.851
50.0	1411.985	1488.003	1611.006	1744.869	1802.492	1763.264	1644.693	1523.685	1444.786
50.5	1389.822	1472.268	1589.065	1728.025	1786.534	1745.977	1625.633	1503.960	1425.947
51.0	1368.989	1452.986	1573.994	1710.960	1771.685	1729.355	1604.579	1482.241	1401.569
51.5	1348.378	1433.704	1554.269	1696.332	1757.945	1712.954	1586.184	1469.608	1380.514
52.0	1326.659	1412.207	1537.869	1680.154	1740.658	1696.776	1566.237	1449.440	1358.130
52.5	1306.712	1392.703	1519.474	1663.088	1724.479	1679.710	1548.729	1431.488	1337.740
53.0	1284.328	1371.206	1500.192	1646.910	1707.857	1665.305	1530.777	1409.769	1317.794
53.5	1264.160	1351.259	1482.241	1629.623	1691.235	1647.574	1510.831	1388.936	1294.523
54.0	1242.219	1332.643	1466.062	1612.779	1673.505	1630.952	1494.652	1368.546	1271.917
54.5	1220.943	1310.923	1452.986	1594.162	1659.764	1615.217	1475.149	1347.270	1251.749

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55.0	1198.115	1290.533	1435.921	1578.205	1643.142	1597.265	1464.067	1327.988	1229.364
55.5	1177.282	1272.360	1417.082	1560.032	1625.190	1580.200	1446.780	1307.599	1207.202
56.0	1156.449	1250.197	1398.466	1542.302	1610.119	1564.243	1427.721	1286.544	1187.477
56.5	1136.503	1229.586	1379.849	1526.344	1591.503	1543.853	1407.774	1263.938	1164.871
57.0	1114.783	1208.753	1361.897	1508.171	1575.546	1527.009	1389.157	1244.213	1141.157
57.5	1094.394	1189.915	1345.054	1491.327	1556.486	1508.614	1370.098	1222.051	1120.324
58.0	1074.447	1169.082	1324.886	1474.041	1538.312	1490.884	1350.594	1202.326	1099.269
58.5	1052.949	1148.471	1306.269	1462.073	1521.469	1476.257	1332.199	1181.715	1076.885
59.0	1033.225	1128.524	1289.647	1449.218	1505.068	1462.073	1312.031	1159.774	1057.160
59.5	1011.948	1109.021	1270.144	1428.385	1486.452	1445.451	1294.079	1140.492	1034.554
60.0	991.559	1089.296	1249.976	1411.098	1475.592	1427.056	1274.798	1120.324	1015.494
60.5	970.947	1069.128	1231.137	1395.363	1459.635	1409.325	1257.733	1098.605	992.002
61.0	948.563	1049.182	1213.629	1375.417	1443.234	1390.266	1238.008	1079.988	971.169
61.5	928.395	1029.014	1195.899	1357.022	1425.947	1372.092	1220.056	1057.825	950.115
62.0	907.784	1009.289	1177.725	1339.735	1406.666	1355.692	1199.445	1038.322	928.617
62.5	887.394	990.007	1159.552	1321.783	1387.828	1335.745	1182.158	1017.489	907.784
63.0	867.669	969.839	1141.157	1303.831	1370.098	1318.237	1163.098	997.986	887.394
63.5	846.836	951.001	1122.540	1284.550	1352.589	1299.842	1143.595	977.596	867.004
64.0	825.339	931.276	1104.810	1266.598	1334.416	1282.112	1125.643	957.428	844.842
64.5	803.176	911.551	1085.085	1247.759	1314.912	1265.046	1106.140	937.925	824.230
65.0	783.894	893.378	1066.690	1229.808	1296.961	1245.543	1088.410	917.979	803.398
65.5	764.613	873.653	1048.517	1213.186	1280.339	1227.591	1070.680	898.032	783.229
66.0	743.558	854.150	1031.230	1192.353	1261.722	1208.531	1050.733	877.864	762.397
66.5	725.163	835.312	1012.170	1175.287	1242.219	1189.915	1033.225	858.139	742.007
67.0	704.995	816.917	993.775	1156.671	1224.267	1170.190	1013.278	839.079	722.725
67.5	685.935	797.857	976.267	1137.168	1204.764	1152.682	996.435	820.241	703.001
68.0	666.210	779.462	956.542	1120.989	1187.034	1134.508	977.153	800.738	683.941
68.5	646.929	761.288	939.698	1100.821	1168.639	1114.783	958.315	781.678	662.664
69.0	627.647	741.564	921.525	1084.420	1150.022	1097.496	940.141	763.726	643.826
69.5	607.258	723.169	903.573	1064.917	1131.184	1079.323	922.633	744.445	622.772
70.0	588.863	704.995	884.735	1046.965	1112.345	1059.598	903.573	724.720	603.933
70.5	570.468	685.492	867.226	1027.906	1094.172	1042.311	885.399	705.660	584.873
71.0	550.300	668.205	849.496	1011.062	1075.777	1023.695	867.669	686.822	565.149
71.5	532.126	649.588	832.874	992.889	1057.382	1006.629	848.831	668.205	545.645
72.0	513.288	632.745	813.814	973.607	1038.765	987.569	831.987	650.475	525.256
72.5	494.671	614.571	796.749	956.098	1021.478	970.283	813.592	631.415	506.196
73.0	475.833	597.506	778.575	937.039	1002.418	950.779	796.084	613.020	488.909
73.5	458.103	580.219	761.510	918.200	983.359	932.828	778.575	595.068	469.627
74.0	439.929	562.267	744.445	902.243	965.850	914.654	760.402	577.116	451.454
74.5	420.648	544.094	725.828	883.405	946.790	897.146	744.002	558.500	432.172
75.0	402.253	527.472	709.206	866.561	929.946	878.529	726.936	541.435	414.664
75.5	385.631	510.628	693.027	847.945	911.551	860.799	708.984	523.261	396.491
76.0	367.236	493.785	675.962	831.323	893.600	843.734	692.806	506.639	378.539
76.5	350.614	477.384	659.340	813.592	875.426	825.339	675.297	488.687	362.138
77.0	334.213	460.984	642.718	795.641	857.253	808.273	657.789	472.065	344.630
77.5	317.370	444.805	626.539	779.019	840.631	790.322	641.167	454.557	327.786
78.0	300.083	428.626	610.582	761.732	822.014	773.478	625.209	438.821	310.943
78.5	283.682	413.334	594.182	744.888	805.171	756.634	609.031	422.643	294.321
79.0	267.504	397.599	578.889	727.823	787.440	739.347	592.409	407.129	278.585
79.5	252.655	382.085	563.819	711.644	771.262	724.277	577.116	391.171	261.741
80.0	237.584	366.571	548.305	694.579	755.083	706.768	561.159	375.658	246.671
80.5	222.070	351.722	533.013	679.065	737.353	691.033	546.310	361.695	231.157
81.0	207.000	337.538	518.164	662.664	721.396	674.189	531.240	346.403	216.751
81.5	192.594	323.132	503.093	647.151	704.995	658.454	516.391	332.440	202.124
82.0	178.410	309.391	488.687	631.637	687.487	642.940	501.542	318.699	187.940
82.5	165.334	295.207	474.282	617.453	671.530	626.539	486.471	305.180	174.420

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83.0	151.371	281.909	460.097	601.939	656.459	611.025	472.952	291.661	160.901
83.5	138.295	269.055	446.135	586.868	640.502	596.620	458.324	278.585	147.825
84.0	125.441	256.422	432.616	572.019	625.431	581.992	445.248	265.731	134.971
84.5	113.030	244.011	419.096	558.057	610.360	567.143	431.508	253.320	123.003
85.0	101.505	232.487	405.577	543.429	595.733	552.294	417.988	241.352	110.592
85.5	89.981	220.297	393.166	529.023	580.884	538.553	405.134	228.497	99.067
86.0	78.456	208.994	380.755	515.947	566.478	524.813	391.836	216.973	87.321
86.5	67.596	197.913	368.787	502.428	552.737	510.628	379.647	205.227	76.018
87.0	56.736	187.053	356.376	489.352	538.775	497.774	367.679	194.145	64.715
87.5	46.763	176.858	344.851	477.384	525.477	485.141	355.268	183.285	53.855
88.0	37.012	165.777	333.992	465.195	513.288	472.730	343.965	172.204	42.996
88.5	27.260	156.247	324.019	454.114	500.877	461.427	333.327	161.344	31.914
89.0	17.509	147.160	314.710	443.254	490.017	449.903	322.910	151.814	21.498
89.5	8.643	139.625	305.845	433.281	479.157	439.929	314.045	143.393	11.303
90.0	3.103	132.755	298.088	423.529	468.741	429.735	305.845	136.079	3.546
90.5	1.995	126.992	290.553	414.221	458.324	419.761	297.645	129.873	1.995
91.0	1.995	122.116	283.018	405.134	448.573	410.896	289.223	124.998	1.773
91.5	1.995	118.570	276.590	396.269	439.265	402.253	282.796	121.230	1.773
92.0	1.995	115.468	269.942	388.512	430.843	394.496	276.590	118.127	1.773
92.5	1.995	112.586	265.287	381.420	422.643	386.961	271.271	115.246	1.773
93.0	1.995	109.927	260.412	374.549	414.886	380.090	266.396	112.365	1.773
93.5	1.995	107.267	255.979	368.566	408.237	373.663	261.741	109.705	1.773
94.0	1.995	104.830	251.768	362.360	401.588	367.679	257.752	107.046	1.773
94.5	1.995	102.392	248.001	357.041	395.604	362.138	253.541	104.386	1.773
95.0	1.995	99.954	244.233	351.722	389.842	356.154	249.330	101.948	1.773
95.5	1.995	97.737	240.022	346.403	383.415	351.057	245.341	99.732	1.773
96.0	1.995	95.521	236.476	341.084	377.874	345.516	241.352	97.516	1.773
96.5	1.995	93.305	232.487	336.208	372.333	340.641	237.141	95.078	1.773
97.0	1.995	91.089	228.941	330.667	366.571	334.878	233.595	92.862	1.773
97.5	1.995	88.872	224.951	326.235	361.030	330.224	229.827	90.867	1.773
98.0	1.995	86.878	221.405	320.916	355.933	325.127	225.838	88.651	1.773
98.5	1.995	85.105	218.081	316.262	350.835	320.029	222.292	86.434	1.773
99.0	1.995	82.888	214.092	311.829	345.738	315.153	218.524	84.440	1.773
99.5	1.995	80.894	210.767	307.175	340.419	310.499	214.978	82.445	1.773
100.0	1.995	79.121	207.000	302.521	335.322	305.845	211.210	80.451	1.773
100.5	1.995	77.126	203.675	297.867	330.002	301.413	207.886	78.678	1.995
101.0	1.995	75.575	200.351	293.212	325.348	296.980	204.562	76.683	1.995
101.5	1.995	73.580	196.805	288.780	320.694	292.104	200.794	74.910	1.995
102.0	2.216	72.029	193.702	284.347	315.375	288.115	197.691	73.137	1.995
102.5	2.216	70.256	190.378	280.136	310.278	283.904	194.145	71.364	1.995
103.0	2.216	68.704	187.053	275.704	305.623	279.472	190.821	69.591	1.995
103.5	2.216	66.931	183.729	271.936	301.191	275.039	187.718	67.818	1.995
104.0	2.216	65.380	180.848	267.947	296.758	270.828	184.172	66.045	1.995
104.5	2.216	63.829	177.523	263.293	292.548	266.617	181.069	64.493	2.216
105.0	2.216	62.277	174.642	259.525	287.672	262.628	177.966	62.942	2.216
105.5	2.216	60.726	171.761	255.536	283.461	258.195	174.864	61.391	2.216
106.0	2.216	59.174	168.658	251.325	279.250	254.206	171.539	59.839	2.216
106.5	2.216	57.845	165.777	247.779	274.374	250.217	168.658	58.510	2.216
107.0	2.438	56.293	162.896	243.790	270.606	246.006	165.555	56.958	2.216
107.5	2.438	54.963	159.793	239.579	266.617	242.238	162.896	55.628	2.216
108.0	2.438	53.634	156.912	236.254	262.406	238.471	160.015	54.299	2.216
108.5	2.438	52.082	154.474	232.265	258.417	234.925	156.912	52.747	2.438
109.0	2.438	50.753	151.593	228.497	254.428	231.157	154.031	51.417	2.438
109.5	2.438	49.423	148.712	224.730	250.660	227.389	151.371	50.088	2.438
110.0	2.438	48.315	146.274	221.184	246.671	223.622	148.712	48.758	2.438
110.5	2.438	46.985	143.614	217.859	242.681	219.854	145.831	47.428	2.438

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111.0	2.438	45.655	140.955	214.313	239.135	216.751	143.171	46.320	2.438
111.5	2.660	44.547	138.517	210.989	235.368	212.983	140.290	44.990	2.438
112.0	2.660	43.217	135.857	207.221	231.822	209.437	137.852	43.660	2.438
112.5	2.660	42.109	133.198	204.340	228.054	206.113	135.192	42.552	2.660
113.0	2.660	41.001	130.981	200.572	224.286	202.789	132.533	41.223	2.660
113.5	2.660	39.893	128.100	197.248	220.519	199.021	130.095	40.114	2.660
114.0	2.660	38.563	125.884	194.145	217.416	195.697	127.657	39.006	2.660
114.5	2.660	37.455	123.446	190.821	213.648	192.594	124.998	37.677	2.660
115.0	2.660	36.568	121.008	187.718	210.324	189.269	122.338	36.568	2.660
115.5	2.660	35.239	118.570	184.615	206.778	185.945	119.900	35.460	2.660
116.0	2.660	34.352	116.354	181.069	203.453	182.842	117.462	34.352	2.881
116.5	2.660	33.244	113.916	178.188	200.129	179.739	115.246	33.466	2.881
117.0	2.660	32.136	111.478	174.864	196.583	176.415	112.808	32.358	2.881
117.5	2.660	31.028	109.262	171.982	193.480	173.312	110.370	31.249	2.881
118.0	2.660	30.141	107.267	168.658	190.156	170.209	108.154	30.141	2.881
118.5	2.660	29.033	105.051	165.777	187.053	167.107	105.938	29.255	2.881
119.0	2.660	28.147	102.835	162.896	183.729	164.226	103.721	28.147	2.881
119.5	2.660	27.038	100.619	160.015	180.404	161.344	101.505	27.260	2.881
120.0	2.660	26.152	98.402	156.690	177.302	158.020	99.067	26.152	2.881
120.5	2.660	25.265	96.186	154.252	173.977	155.139	97.073	25.265	3.103
121.0	2.660	24.157	94.191	151.150	170.653	152.258	94.856	24.379	3.103
121.5	2.660	23.049	92.197	148.268	167.993	149.377	92.862	23.271	3.103
122.0	2.660	22.163	90.202	145.387	164.447	146.495	90.867	22.384	3.103
122.5	2.660	21.276	87.986	142.506	161.566	143.393	88.872	21.498	3.103
123.0	2.660	20.390	85.991	139.847	158.463	140.733	86.656	20.611	3.103
123.5	2.660	19.503	83.997	136.965	155.360	138.074	84.661	19.725	3.103
124.0	2.660	18.617	82.224	134.084	152.479	135.192	82.667	18.838	3.103
124.5	2.660	17.730	80.229	131.425	149.598	132.090	80.672	17.952	3.324
125.0	2.660	16.844	78.234	128.765	146.717	129.430	78.678	17.065	3.324
125.5	2.660	15.957	76.240	126.106	143.614	126.771	76.683	16.179	3.324
126.0	2.660	15.292	74.245	123.668	140.733	124.111	74.688	15.292	3.324
126.5	2.660	14.406	72.472	121.008	137.852	121.452	72.915	14.406	3.324
127.0	2.660	13.519	70.699	118.349	134.749	118.792	71.142	13.741	3.324
127.5	2.660	12.854	68.926	115.911	132.090	116.132	69.148	12.854	3.324
128.0	2.660	11.968	66.931	113.251	129.430	113.916	67.375	12.189	3.546
128.5	2.660	11.303	64.937	110.813	126.771	111.478	65.602	11.525	3.546
129.0	2.660	10.638	63.164	108.154	123.889	108.819	63.829	10.860	3.546
129.5	2.660	10.195	61.612	105.716	121.230	106.381	62.056	10.416	3.546
130.0	2.881	9.530	60.061	103.278	118.570	103.943	60.504	9.752	3.546
130.5	2.881	9.087	58.066	101.062	115.911	101.727	58.731	9.308	3.768
131.0	2.881	8.643	56.515	98.846	113.251	99.067	56.958	8.865	3.768
131.5	2.881	8.200	54.963	96.408	110.592	96.851	55.407	8.422	3.768
132.0	2.881	7.757	53.190	94.191	107.932	94.413	53.634	7.979	3.768
132.5	2.881	7.314	51.639	91.754	105.494	92.197	52.082	7.535	3.768
133.0	2.881	7.092	50.088	89.316	103.057	89.759	50.531	7.314	3.989
133.5	2.881	6.870	48.315	87.099	100.397	87.543	48.758	7.092	3.989
134.0	2.881	6.649	46.542	84.883	98.181	85.105	47.207	6.870	3.989
134.5	2.881	6.427	44.769	82.667	95.521	82.888	45.655	6.649	3.989
135.0	2.881	6.206	42.996	80.451	93.083	80.672	44.104	6.427	3.989
135.5	2.881	5.984	41.444	78.013	90.645	78.456	42.552	6.206	3.989
136.0	2.881	5.762	39.671	75.796	88.208	76.240	41.001	5.984	3.989
136.5	2.881	5.762	38.120	73.802	85.770	74.023	39.671	5.984	4.211
137.0	2.881	5.541	36.347	71.807	83.332	71.807	38.120	5.762	4.211
137.5	2.881	5.541	34.795	69.591	81.115	69.812	36.568	5.762	4.211
138.0	2.881	5.319	33.244	67.375	78.899	67.596	35.239	5.541	4.211
138.5	2.881	5.319	31.914	65.380	76.683	65.602	33.909	5.541	4.211

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139.0	3.103	5.319	30.363	63.385	74.467	63.385	32.579	5.319	4.433
139.5	3.103	5.097	28.811	61.391	72.250	61.612	31.249	5.319	4.433
140.0	3.103	5.097	27.482	59.396	70.034	59.396	29.698	5.319	4.433
140.5	3.103	5.097	26.152	57.180	67.818	57.401	28.368	5.097	4.433
141.0	3.103	4.876	25.044	55.407	65.602	55.407	27.038	5.097	4.433
141.5	3.103	4.876	23.714	53.412	63.385	53.634	25.709	5.097	4.654
142.0	3.103	4.876	22.606	51.639	61.391	51.639	24.379	5.097	4.654
142.5	3.103	4.654	21.498	49.644	59.174	49.644	23.049	4.876	4.654
143.0	3.103	4.654	20.390	47.871	57.180	47.650	21.941	4.876	4.654
143.5	3.324	4.654	19.282	45.877	55.185	45.877	20.611	4.876	4.654
144.0	3.324	4.654	18.173	44.104	52.969	44.104	19.503	4.654	4.654
144.5	3.324	4.654	17.065	42.331	50.974	42.109	18.173	4.654	4.876
145.0	3.324	4.433	16.179	40.336	48.980	40.336	17.065	4.654	4.876
145.5	3.324	4.433	15.071	38.563	46.985	38.563	15.957	4.654	4.876
146.0	3.324	4.433	14.184	37.012	44.990	36.790	14.849	4.654	4.876
146.5	3.324	4.433	13.298	35.239	42.996	35.017	13.962	4.654	4.876
147.0	3.324	4.433	12.411	33.466	41.223	33.244	13.076	4.433	4.876
147.5	3.324	4.433	11.525	31.693	39.228	31.693	12.189	4.433	5.097
148.0	3.546	4.433	10.860	29.920	37.455	29.920	11.525	4.433	5.097
148.5	3.546	4.433	10.195	28.147	35.460	28.368	10.860	4.433	5.097
149.0	3.546	4.433	9.752	26.152	33.687	26.595	10.195	4.433	5.097
149.5	3.546	4.433	9.087	24.601	31.914	25.044	9.752	4.433	5.097
150.0	3.546	4.433	8.643	22.828	30.141	23.492	9.308	4.654	5.097
150.5	3.546	4.433	8.422	21.276	28.368	21.941	8.865	4.433	5.319
151.0	3.546	4.433	7.979	19.725	26.595	20.390	8.422	4.433	5.319
151.5	3.768	4.433	7.757	18.395	25.044	19.060	8.200	4.654	5.319
152.0	3.768	4.654	7.535	16.844	23.271	17.509	7.757	4.654	5.319
152.5	3.768	4.654	7.314	15.736	21.719	16.179	7.535	4.654	5.319
153.0	3.768	4.654	7.092	14.627	19.946	14.849	7.314	4.654	5.319
153.5	3.768	4.654	6.870	13.519	18.395	13.741	7.092	4.654	5.319
154.0	3.768	4.654	6.649	12.411	16.844	12.854	6.870	4.654	5.541
154.5	3.989	4.654	6.427	11.525	15.514	11.746	6.649	4.654	5.541
155.0	3.989	4.654	6.206	10.638	14.184	10.860	6.427	4.654	5.541
155.5	3.989	4.876	6.206	9.973	13.076	10.195	6.427	4.654	5.541
156.0	3.989	4.876	5.984	9.308	11.968	9.530	6.206	4.876	5.541
156.5	4.211	4.876	5.984	8.643	11.081	8.865	5.984	4.876	5.541
157.0	4.211	4.876	5.762	8.200	10.195	8.422	5.984	4.876	5.541
157.5	4.211	4.876	5.762	7.979	9.308	7.979	5.762	4.876	5.541
158.0	4.211	4.876	5.541	7.535	8.865	7.535	5.762	4.876	5.762
158.5	4.211	5.097	5.541	7.314	8.200	7.314	5.541	4.876	5.762
159.0	4.433	5.097	5.319	6.870	7.757	6.870	5.541	5.097	5.762
159.5	4.433	5.097	5.319	6.649	7.314	6.649	5.319	5.097	5.762
160.0	4.433	5.097	5.319	6.427	7.092	6.427	5.319	5.097	5.762
160.5	4.433	5.097	5.097	6.206	6.649	6.206	5.319	5.097	5.762
161.0	4.433	5.097	5.097	5.984	6.427	5.984	5.097	5.097	5.762
161.5	4.654	5.097	5.097	5.984	6.206	5.984	5.097	5.097	5.762
162.0	4.654	5.319	5.097	5.762	5.984	5.762	5.097	5.097	5.762
162.5	4.654	5.319	5.097	5.541	5.762	5.541	5.097	5.319	5.762
163.0	4.654	5.319	5.097	5.319	5.541	5.541	5.097	5.319	5.984
163.5	4.654	5.319	5.097	5.319	5.319	5.319	5.097	5.319	5.984
164.0	4.876	5.319	5.097	5.097	5.319	5.097	5.097	5.319	5.984
164.5	4.876	5.319	5.097	5.097	5.097	5.097	5.097	5.319	5.984
165.0	4.876	5.541	5.097	5.097	5.097	5.097	5.097	5.319	5.984
165.5	4.876	5.541	5.097	5.097	4.876	5.097	5.097	5.541	5.984
166.0	5.097	5.541	5.319	5.097	4.876	4.876	5.319	5.541	5.984
166.5	5.097	5.541	5.319	5.097	4.876	4.876	5.319	5.541	5.984

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CANDELA TABULATION - (Cont.)

167.0	5.097	5.541	5.319	4.876	4.654	4.876	5.319	5.541	5.984
167.5	5.097	5.541	5.319	4.876	4.654	4.876	5.319	5.541	5.984
168.0	5.097	5.541	5.319	4.876	4.654	4.876	5.319	5.541	5.984
168.5	5.319	5.762	5.319	4.876	4.654	4.876	5.319	5.541	5.984
169.0	5.319	5.762	5.319	5.097	4.654	5.097	5.319	5.762	5.984
169.5	5.319	5.762	5.319	5.097	4.654	5.097	5.319	5.762	5.984
170.0	5.319	5.762	5.319	5.097	4.654	4.876	5.319	5.762	5.984
170.5	5.319	5.762	5.319	5.097	4.654	5.097	5.319	5.762	5.984
171.0	5.319	5.762	5.541	5.097	4.654	5.097	5.319	5.762	5.984
171.5	5.319	5.762	5.541	5.097	4.654	5.097	5.541	5.762	5.984
172.0	5.319	5.762	5.541	5.097	4.654	5.097	5.541	5.762	5.984
172.5	5.541	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
173.0	5.541	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
173.5	5.541	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
174.0	5.541	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
174.5	5.541	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
175.0	5.541	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
175.5	5.762	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
176.0	5.762	5.762	5.541	5.097	4.876	5.097	5.541	5.762	5.984
176.5	5.762	5.762	5.541	5.319	4.876	5.097	5.541	5.762	5.984
177.0	5.762	5.984	5.541	5.319	4.876	5.097	5.541	5.984	5.984
177.5	5.762	5.984	5.541	5.319	4.876	5.097	5.541	5.984	5.984
178.0	5.762	5.984	5.541	5.319	4.876	5.319	5.541	5.984	5.984
178.5	5.762	5.984	5.541	5.319	4.876	5.319	5.541	5.984	5.984
179.0	5.984	5.984	5.541	5.319	4.876	5.319	5.762	5.984	5.984
179.5	5.984	5.984	5.541	5.319	4.876	5.319	5.541	5.984	5.984
180.0	5.541	5.541	5.541	5.541	5.541	5.541	5.541	5.541	5.541

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_5000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1037.51	N.A.	11.40
0-30	2179.4	N.A.	24.00
0-40	3533.56	N.A.	38.80
0-60	6220.25	N.A.	68.40
0-80	8016.89	N.A.	88.10
0-90	8444.06	N.A.	92.80
10-90	8173.71	N.A.	89.80
20-40	2496.05	N.A.	27.40
20-50	3892.33	N.A.	42.80
40-70	3743.43	N.A.	41.10
60-80	1796.64	N.A.	19.70
70-80	739.90	N.A.	8.10
80-90	427.17	N.A.	4.70
90-110	418.79	N.A.	4.60
90-120	531.92	N.A.	5.80
90-130	599.67	N.A.	6.60
90-150	649.07	N.A.	7.10
90-180	655.13	N.A.	7.20
110-180	236.35	N.A.	2.60
0-180	9099.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.35
10-20	767.16
20-30	1141.89
30-40	1354.16
40-50	1396.28
50-60	1290.41
60-70	1056.74
70-80	739.90
80-90	427.17
90-100	247.36
100-110	171.43
110-120	113.13
120-130	67.75
130-140	35.12
140-150	14.29
150-160	4.03
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_5000K_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	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

UGR Viewed Endwise

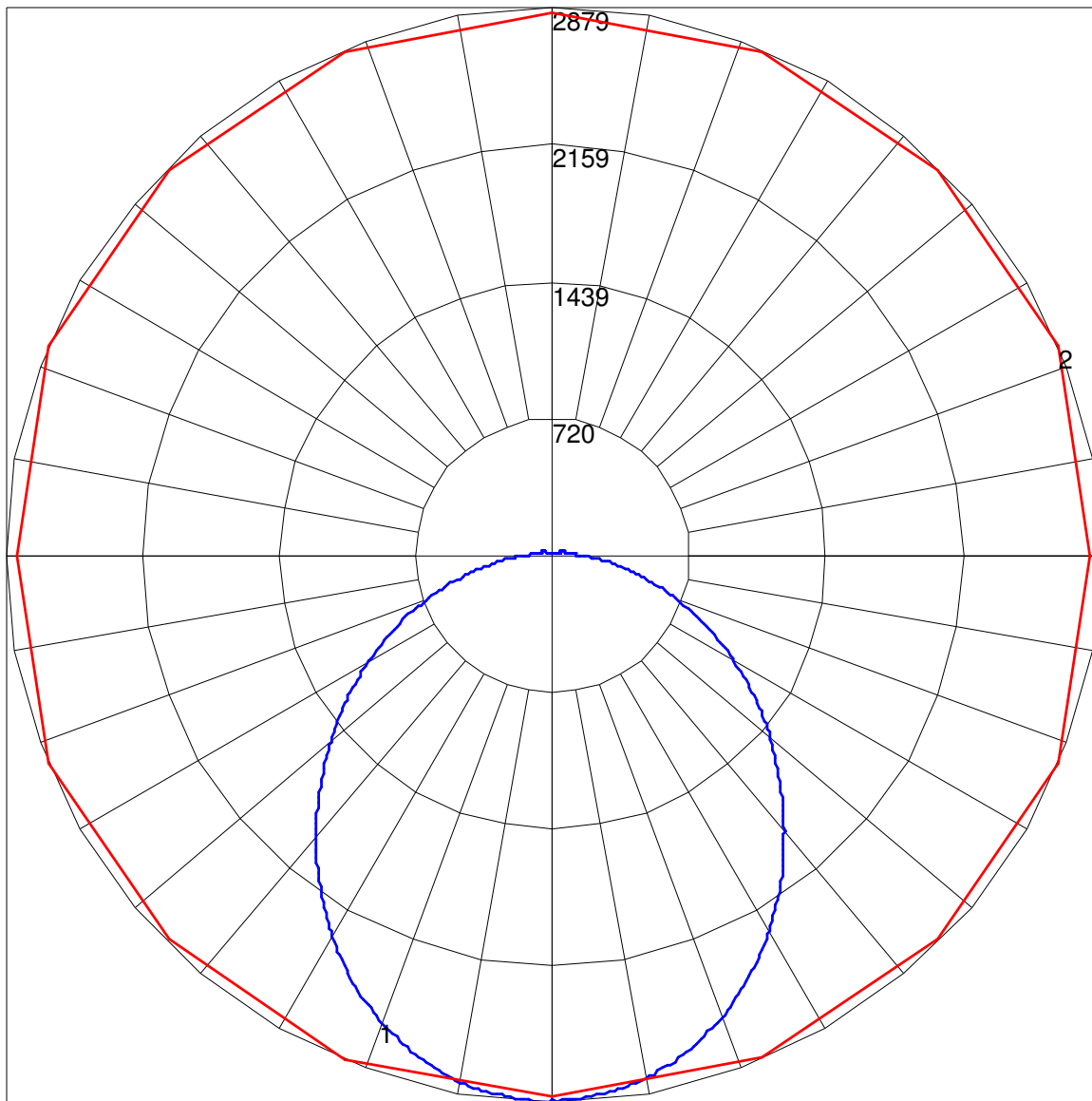
4H	2H	18.6	19.9	19.1	20.4	20.9	21.5	22.8	22.0	23.3	23.9
	3H	20.0	21.2	20.6	21.7	22.2	24.1	25.2	24.6	25.8	26.3
	4H	20.5	21.5	21.0	22.1	22.7	25.3	26.4	25.9	26.9	27.5
	6H	20.8	21.7	21.4	22.3	22.9	26.6	27.5	27.2	28.1	28.7
	8H	20.9	21.7	21.4	22.3	22.9	27.2	28.1	27.8	28.7	29.3
	12H	20.9	21.7	21.5	22.3	22.9	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 = 2878.933 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.)