

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_3500K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-19

[TEST DATE] 2/23/2024

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

[LUMCAT] FS-8-LS-8CS-DIM-UNV_63W_3500K_

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

[MORE] WITH FROSTED ACRYLIC LENS

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

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	64.8
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	18294	11098	10296
55	16543	9135	8616
65	14419	7200	7001
75	11606	5268	5340
85	7304	3467	3776

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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	2721.192	2721.192	2721.192	2721.192	2721.192	2721.192	2721.192	2721.192	2721.192
0.5	2685.387	2731.723	2725.405	2725.405	2712.767	2727.511	2725.405	2735.936	2687.493
1.0	2683.281	2729.617	2721.192	2727.511	2710.661	2727.511	2721.192	2733.829	2687.493
1.5	2687.493	2729.617	2716.980	2725.405	2712.767	2727.511	2721.192	2731.723	2687.493
2.0	2687.493	2727.511	2721.192	2727.511	2710.661	2731.723	2721.192	2733.829	2685.387
2.5	2685.387	2725.405	2716.980	2725.405	2710.661	2723.298	2721.192	2729.617	2681.175
3.0	2679.068	2725.405	2714.874	2725.405	2710.661	2725.405	2719.086	2731.723	2681.175
3.5	2681.175	2721.192	2712.767	2719.086	2706.449	2721.192	2716.980	2725.405	2683.281
4.0	2674.856	2716.980	2708.555	2721.192	2708.555	2719.086	2714.874	2727.511	2676.962
4.5	2676.962	2710.661	2708.555	2716.980	2704.343	2719.086	2710.661	2723.298	2672.750
5.0	2666.431	2708.555	2702.237	2714.874	2704.343	2716.980	2708.555	2719.086	2672.750
5.5	2664.325	2708.555	2700.130	2712.767	2704.343	2714.874	2708.555	2714.874	2666.431
6.0	2660.113	2702.237	2695.918	2710.661	2698.024	2710.661	2702.237	2714.874	2664.325
6.5	2655.900	2698.024	2693.812	2704.343	2693.812	2708.555	2700.130	2710.661	2660.113
7.0	2649.582	2691.706	2689.599	2698.024	2689.599	2704.343	2698.024	2708.555	2662.219
7.5	2647.476	2689.599	2683.281	2698.024	2685.387	2700.130	2691.706	2704.343	2653.794
8.0	2643.263	2683.281	2679.068	2691.706	2685.387	2698.024	2689.599	2700.130	2649.582
8.5	2636.945	2676.962	2672.750	2685.387	2676.962	2691.706	2685.387	2693.812	2641.157
9.0	2632.732	2670.644	2664.325	2683.281	2672.750	2685.387	2679.068	2691.706	2636.945
9.5	2620.095	2664.325	2664.325	2679.068	2668.538	2683.281	2674.856	2683.281	2630.626
10.0	2617.989	2662.219	2653.794	2666.431	2666.431	2676.962	2670.644	2679.068	2628.520
10.5	2603.246	2649.582	2649.582	2666.431	2655.900	2672.750	2664.325	2670.644	2617.989
11.0	2601.140	2647.476	2643.263	2658.007	2651.688	2666.431	2653.794	2660.113	2617.989
11.5	2592.715	2636.945	2634.839	2651.688	2647.476	2658.007	2649.582	2658.007	2607.458
12.0	2584.290	2628.520	2630.626	2645.370	2639.051	2653.794	2641.157	2649.582	2596.927
12.5	2573.759	2620.095	2622.201	2641.157	2639.051	2643.263	2634.839	2639.051	2592.715
13.0	2569.547	2615.883	2611.671	2632.732	2630.626	2639.051	2628.520	2634.839	2580.078
13.5	2563.228	2605.352	2607.458	2622.201	2622.201	2630.626	2622.201	2628.520	2571.653
14.0	2550.591	2594.821	2596.927	2615.883	2613.777	2624.308	2611.671	2620.095	2563.228
14.5	2535.848	2584.290	2586.396	2607.458	2605.352	2613.777	2605.352	2611.671	2556.910
15.0	2529.529	2577.972	2582.184	2603.246	2596.927	2607.458	2594.821	2601.140	2546.379
15.5	2521.105	2571.653	2569.547	2592.715	2588.502	2596.927	2588.502	2590.609	2537.954
16.0	2514.786	2556.910	2561.122	2586.396	2577.972	2588.502	2575.865	2582.184	2523.211
16.5	2495.830	2548.485	2548.485	2577.972	2569.547	2580.078	2565.334	2571.653	2521.105
17.0	2485.299	2537.954	2542.166	2567.441	2561.122	2567.441	2556.910	2563.228	2506.361
17.5	2474.768	2525.317	2529.529	2554.804	2550.591	2556.910	2544.273	2554.804	2500.043
18.0	2468.450	2510.574	2516.892	2542.166	2542.166	2544.273	2535.848	2537.954	2487.406
18.5	2455.813	2502.149	2506.361	2535.848	2531.635	2535.848	2523.211	2529.529	2476.875
19.0	2438.963	2489.512	2493.724	2523.211	2518.998	2525.317	2514.786	2516.892	2464.238
19.5	2430.539	2478.981	2483.193	2512.680	2506.361	2512.680	2504.255	2506.361	2449.494
20.0	2417.901	2464.238	2470.556	2500.043	2495.830	2504.255	2491.618	2493.724	2438.963
20.5	2403.158	2451.600	2460.025	2489.512	2485.299	2489.512	2481.087	2481.087	2428.432
21.0	2392.627	2438.963	2445.282	2474.768	2472.662	2481.087	2464.238	2472.662	2411.583
21.5	2375.778	2426.326	2432.645	2462.131	2464.238	2470.556	2455.813	2457.919	2401.052
22.0	2365.247	2415.795	2422.114	2449.494	2451.600	2455.813	2443.176	2445.282	2388.415
22.5	2346.291	2396.840	2407.370	2438.963	2443.176	2449.494	2430.539	2430.539	2371.565
23.0	2333.654	2384.202	2394.733	2424.220	2430.539	2434.751	2420.008	2417.901	2363.141
23.5	2323.123	2369.459	2384.202	2413.689	2422.114	2428.432	2407.370	2405.264	2348.397
24.0	2302.061	2356.822	2369.459	2401.052	2409.477	2415.795	2394.733	2386.309	2327.335
24.5	2293.636	2344.185	2354.716	2390.521	2398.946	2405.264	2379.990	2373.672	2314.698
25.0	2276.787	2323.123	2342.079	2379.990	2392.627	2394.733	2367.353	2361.034	2302.061
25.5	2257.831	2310.486	2323.123	2369.459	2382.096	2382.096	2356.822	2348.397	2289.424
26.0	2240.982	2297.849	2310.486	2352.610	2369.459	2369.459	2342.079	2333.654	2270.468
26.5	2226.239	2278.893	2297.849	2344.185	2358.928	2356.822	2327.335	2316.805	2257.831

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27.0	2213.601	2264.150	2285.212	2329.442	2342.079	2344.185	2312.592	2302.061	2240.982
27.5	2194.646	2251.513	2270.468	2318.911	2331.548	2329.442	2299.955	2287.318	2224.132
28.0	2179.902	2230.451	2251.513	2306.274	2321.017	2316.805	2283.106	2270.468	2209.389
28.5	2165.159	2215.708	2238.876	2291.530	2308.380	2304.167	2270.468	2255.725	2194.646
29.0	2148.310	2198.858	2224.132	2278.893	2295.743	2289.424	2255.725	2240.982	2175.690
29.5	2131.460	2184.115	2209.389	2264.150	2280.999	2276.787	2243.088	2222.026	2158.841
30.0	2110.398	2167.265	2194.646	2249.407	2268.362	2264.150	2226.239	2207.283	2139.885
30.5	2093.759	2150.416	2177.796	2236.769	2255.725	2249.407	2211.495	2190.433	2123.035
31.0	2076.067	2131.460	2163.053	2222.026	2243.088	2236.769	2194.646	2173.584	2110.398
31.5	2062.798	2112.504	2148.310	2207.283	2228.345	2224.132	2182.009	2156.734	2087.651
32.0	2040.684	2099.446	2131.460	2194.646	2215.708	2211.495	2167.265	2139.885	2072.066
32.5	2026.361	2080.490	2114.611	2179.902	2203.070	2196.752	2148.310	2120.929	2057.533
33.0	2005.721	2063.641	2096.076	2167.265	2192.540	2184.115	2131.460	2102.395	2033.944
33.5	1987.186	2045.738	2080.280	2154.628	2177.796	2167.265	2116.717	2086.177	2018.990
34.0	1970.337	2028.046	2068.064	2137.779	2165.159	2154.628	2103.237	2070.381	2003.615
34.5	1950.749	2008.248	2050.161	2123.035	2152.522	2139.885	2086.598	2049.108	1982.132
35.0	1935.374	1991.188	2035.207	2110.398	2137.779	2125.142	2070.802	2032.680	1968.020
35.5	1916.208	1971.601	2020.254	2096.708	2127.248	2110.398	2052.899	2012.882	1945.273
36.0	1893.672	1951.381	2002.140	2081.754	2112.504	2099.025	2036.050	1995.401	1930.109
36.5	1874.084	1933.900	1988.240	2066.168	2100.078	2083.650	2020.464	1977.077	1912.627
37.0	1858.920	1913.891	1969.284	2054.374	2087.230	2069.749	2002.983	1958.753	1898.095
37.5	1838.700	1897.463	1953.909	2038.999	2073.540	2053.110	1988.871	1941.903	1879.771
38.0	1817.007	1878.297	1936.427	2025.308	2060.060	2038.367	1972.022	1924.633	1858.077
38.5	1799.525	1859.130	1922.316	2009.933	2044.896	2023.834	1953.487	1907.573	1837.437
39.0	1778.463	1838.700	1904.624	1994.979	2030.574	2008.670	1938.744	1891.144	1817.428
39.5	1758.455	1818.060	1888.617	1979.394	2017.515	1993.926	1920.842	1872.610	1794.049
40.0	1736.972	1801.421	1871.978	1965.071	2005.300	1980.657	1904.203	1855.550	1772.145
40.5	1718.858	1782.465	1855.550	1949.907	1989.082	1965.493	1887.774	1833.856	1751.504
41.0	1695.901	1761.193	1838.068	1936.006	1972.864	1950.749	1870.925	1814.690	1730.864
41.5	1676.945	1740.341	1823.746	1921.684	1961.912	1934.111	1852.812	1791.732	1710.012
42.0	1655.041	1721.807	1805.423	1905.888	1947.379	1922.316	1836.173	1770.039	1691.267
42.5	1635.453	1702.009	1787.941	1891.987	1933.479	1905.466	1817.428	1750.662	1670.627
43.0	1614.392	1684.527	1771.092	1876.190	1919.157	1889.249	1801.631	1727.494	1649.986
43.5	1596.068	1666.414	1753.400	1860.394	1906.309	1873.663	1786.046	1707.064	1631.873
44.0	1578.165	1644.931	1736.972	1846.493	1891.776	1860.183	1766.879	1685.159	1610.179
44.5	1553.101	1624.712	1716.752	1830.276	1877.244	1845.861	1752.557	1665.782	1591.013
45.0	1534.778	1604.703	1702.851	1815.532	1862.921	1827.748	1735.918	1643.878	1571.215
45.5	1515.822	1585.116	1683.264	1799.946	1845.651	1814.269	1718.437	1626.186	1551.417
46.0	1494.971	1568.477	1667.046	1782.886	1831.329	1799.736	1702.009	1605.335	1529.091
46.5	1476.647	1548.679	1648.933	1765.405	1817.638	1782.044	1685.159	1586.590	1510.767
47.0	1455.164	1527.406	1631.873	1752.979	1802.474	1769.828	1669.574	1567.213	1491.811
47.5	1434.102	1508.450	1614.392	1735.497	1788.994	1754.874	1652.513	1547.204	1467.590
48.0	1417.674	1488.863	1598.384	1723.071	1771.724	1735.708	1635.875	1526.985	1451.162
48.5	1394.716	1469.275	1581.114	1703.904	1758.033	1721.596	1618.604	1507.608	1426.941
49.0	1381.237	1452.847	1565.107	1689.372	1742.869	1706.221	1600.701	1488.863	1407.985
49.5	1363.124	1430.943	1548.047	1673.997	1726.441	1691.478	1578.797	1468.012	1389.240
50.0	1341.851	1414.093	1530.987	1658.200	1712.961	1675.682	1563.001	1448.003	1373.023
50.5	1320.789	1399.139	1510.135	1642.193	1697.796	1659.253	1544.887	1429.258	1355.120
51.0	1300.991	1380.815	1495.813	1625.976	1683.685	1643.457	1524.879	1408.617	1331.952
51.5	1281.404	1362.492	1477.068	1612.075	1670.627	1627.871	1507.397	1396.612	1311.943
52.0	1260.763	1342.062	1461.482	1596.700	1654.198	1612.496	1488.442	1377.446	1290.671
52.5	1241.807	1323.527	1444.001	1580.482	1638.823	1596.278	1471.803	1360.385	1271.294
53.0	1220.535	1303.097	1425.677	1565.107	1623.027	1582.588	1454.743	1339.745	1252.338
53.5	1201.368	1284.142	1408.617	1548.679	1607.230	1565.739	1435.787	1319.947	1230.223
54.0	1180.517	1266.450	1393.242	1532.671	1590.381	1549.942	1420.412	1300.570	1208.740
54.5	1160.298	1245.809	1380.815	1514.980	1577.323	1534.988	1401.877	1280.350	1189.574

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55.0	1138.604	1226.432	1364.598	1499.815	1561.526	1517.928	1391.346	1262.027	1168.301
55.5	1118.806	1209.161	1346.695	1482.544	1544.466	1501.711	1374.918	1242.650	1147.239
56.0	1099.008	1188.099	1329.003	1465.695	1530.144	1486.546	1356.805	1222.641	1128.494
56.5	1080.052	1168.512	1311.311	1450.530	1512.452	1467.169	1337.849	1201.158	1107.011
57.0	1059.412	1148.714	1294.251	1433.260	1497.288	1451.162	1320.157	1182.413	1084.475
57.5	1040.035	1130.811	1278.244	1417.253	1479.174	1433.681	1302.044	1161.351	1064.677
58.0	1021.079	1111.013	1259.078	1400.824	1461.904	1416.831	1283.510	1142.606	1044.668
58.5	1000.649	1091.426	1241.386	1389.451	1445.897	1402.930	1266.028	1123.018	1023.396
59.0	981.904	1072.470	1225.590	1377.235	1430.311	1389.451	1246.862	1102.167	1004.651
59.5	961.684	1053.935	1207.055	1357.437	1412.619	1373.654	1229.802	1083.843	983.168
60.0	942.308	1035.190	1187.889	1341.009	1402.299	1356.173	1211.478	1064.677	965.054
60.5	922.720	1016.024	1169.986	1326.055	1387.134	1339.324	1195.261	1044.036	942.729
61.0	901.448	997.068	1153.347	1307.099	1371.548	1321.210	1176.515	1026.344	922.931
61.5	882.281	977.902	1136.498	1289.618	1355.120	1303.940	1159.455	1005.283	902.922
62.0	862.694	959.157	1119.227	1273.189	1336.796	1288.354	1139.868	986.748	882.492
62.5	843.317	940.833	1101.956	1256.129	1318.894	1269.398	1123.440	966.950	862.694
63.0	824.572	921.667	1084.475	1239.069	1302.044	1252.759	1105.326	948.416	843.317
63.5	804.774	903.764	1066.783	1220.745	1285.405	1235.278	1086.792	929.039	823.940
64.0	784.344	885.019	1049.934	1203.685	1268.135	1218.429	1069.732	909.872	802.878
64.5	763.282	866.274	1031.189	1185.783	1249.600	1202.211	1051.197	891.338	783.291
65.0	744.958	849.004	1013.707	1168.723	1232.540	1183.676	1034.348	872.382	763.492
65.5	726.634	830.258	996.437	1152.926	1216.744	1166.616	1017.498	853.427	744.326
66.0	706.625	811.724	980.008	1133.128	1199.052	1148.503	998.543	834.260	724.528
66.5	689.144	793.821	961.895	1116.910	1180.517	1130.811	981.904	815.515	705.151
67.0	669.978	776.340	944.414	1099.218	1163.457	1112.066	962.948	797.402	686.827
67.5	651.865	758.227	927.775	1080.684	1144.923	1095.427	946.941	779.499	668.082
68.0	633.119	740.746	909.030	1065.309	1128.073	1078.157	928.617	760.965	649.969
68.5	614.796	723.475	893.023	1046.143	1110.592	1059.412	910.715	742.852	629.750
69.0	596.472	704.730	875.752	1030.557	1092.900	1042.983	893.444	725.792	611.847
69.5	577.095	687.248	858.692	1012.022	1074.997	1025.713	876.805	707.468	591.838
70.0	559.614	669.978	840.789	994.962	1057.095	1006.967	858.692	688.723	573.936
70.5	542.132	651.443	824.151	976.849	1039.824	990.539	841.421	670.610	555.822
71.0	522.966	635.015	807.301	960.842	1022.343	972.847	824.572	652.707	537.077
71.5	505.695	617.323	791.505	943.571	1004.861	956.630	806.669	635.015	518.543
72.0	487.793	601.316	773.391	925.247	987.169	938.516	790.662	618.166	499.166
72.5	470.101	584.045	757.174	908.609	970.741	922.088	773.181	600.052	481.053
73.0	452.198	567.828	739.903	890.495	952.628	903.554	756.542	582.571	464.625
73.5	435.349	551.399	723.685	872.593	934.515	886.494	739.903	565.511	446.301
74.0	418.078	534.339	707.468	857.428	917.876	869.223	722.632	548.451	429.030
74.5	399.754	517.069	689.776	839.526	899.763	852.584	707.047	530.759	410.706
75.0	382.273	501.272	673.979	823.519	883.756	834.892	690.829	514.541	394.067
75.5	366.476	485.265	658.604	805.827	866.274	818.043	673.769	497.270	376.797
76.0	348.995	469.258	642.387	790.030	849.214	801.825	658.394	481.474	359.737
76.5	333.199	453.672	626.590	773.181	831.943	784.344	641.755	464.414	344.151
77.0	317.613	438.087	610.794	756.121	814.673	768.126	625.116	448.618	327.512
77.5	301.606	422.712	595.419	740.324	798.876	751.066	609.320	431.979	311.505
78.0	285.178	407.336	580.254	723.896	781.184	735.059	594.155	417.025	295.498
78.5	269.592	392.804	564.668	707.889	765.177	719.052	578.780	401.650	279.701
79.0	254.217	377.850	550.136	691.671	748.328	702.624	562.983	386.906	264.748
79.5	240.105	363.106	535.814	676.296	732.953	688.302	548.451	371.742	248.741
80.0	225.783	348.363	521.070	660.079	717.578	671.663	533.286	356.999	234.418
80.5	211.040	334.252	506.538	645.335	700.728	656.709	519.175	343.730	219.675
81.0	196.718	320.772	492.426	629.750	685.564	640.702	504.853	329.197	205.985
81.5	183.028	307.082	478.104	615.006	669.978	625.748	490.741	315.928	192.084
82.0	169.548	294.024	464.414	600.263	653.339	611.005	476.630	302.870	178.605
82.5	157.121	280.544	450.724	586.783	638.174	595.419	462.308	290.022	165.757

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83.0	143.852	267.907	437.244	572.040	623.852	580.675	449.460	277.174	152.909
83.5	131.426	255.691	423.975	557.718	608.688	566.985	435.559	264.748	140.483
84.0	119.210	243.686	411.127	543.607	594.366	553.084	423.133	252.532	128.267
84.5	107.415	231.891	398.280	530.338	580.044	538.973	410.074	240.737	116.893
85.0	96.463	220.939	385.432	516.437	566.143	524.862	397.227	229.364	105.099
85.5	85.511	209.355	373.637	502.747	552.031	511.803	385.011	217.148	94.147
86.0	74.559	198.613	361.843	490.320	538.341	498.745	372.374	206.196	82.984
86.5	64.239	188.082	350.469	477.472	525.283	485.265	360.790	195.033	72.242
87.0	53.918	177.762	338.675	465.046	512.014	473.049	349.416	184.502	61.501
87.5	44.441	168.074	327.723	453.672	499.377	461.044	337.622	174.182	51.180
88.0	35.173	157.543	317.402	442.088	487.793	449.249	326.880	163.651	40.860
88.5	25.906	148.486	307.924	431.557	475.998	438.508	316.770	153.330	30.329
89.0	16.639	139.851	299.078	421.237	465.678	427.556	306.871	144.274	20.430
89.5	8.214	132.690	290.654	411.759	455.357	418.078	298.447	136.270	10.742
90.0	2.949	126.161	283.282	402.492	445.458	408.389	290.654	129.320	3.370
90.5	1.896	120.684	276.121	393.646	435.559	398.912	282.861	123.422	1.896
91.0	1.896	116.051	268.960	385.011	426.292	390.487	274.857	118.789	1.685
91.5	1.896	112.681	262.852	376.586	417.446	382.273	268.749	115.208	1.685
92.0	1.896	109.732	256.533	369.214	409.443	374.901	262.852	112.260	1.685
92.5	1.896	106.994	252.110	362.475	401.650	367.740	257.797	109.522	1.685
93.0	1.896	104.467	247.477	355.945	394.278	361.211	253.164	106.784	1.685
93.5	1.896	101.939	243.264	350.259	387.959	355.103	248.741	104.256	1.685
94.0	1.896	99.623	239.263	344.361	381.641	349.416	244.949	101.729	1.685
94.5	1.896	97.306	235.682	339.307	375.954	344.151	240.948	99.201	1.685
95.0	1.896	94.989	232.102	334.252	370.478	338.464	236.946	96.885	1.685
95.5	1.896	92.883	228.100	329.197	364.370	333.620	233.155	94.778	1.685
96.0	1.896	90.777	224.730	324.142	359.105	328.354	229.364	92.672	1.685
96.5	1.896	88.670	220.939	319.508	353.839	323.721	225.362	90.355	1.685
97.0	1.896	86.564	217.569	314.243	348.363	318.245	221.992	88.249	1.685
97.5	1.896	84.458	213.778	310.031	343.098	313.822	218.411	86.354	1.685
98.0	1.896	82.562	210.408	304.976	338.253	308.977	214.620	84.247	1.685
98.5	1.896	80.878	207.249	300.553	333.409	304.133	211.250	82.141	1.685
99.0	1.896	78.771	203.458	296.340	328.565	299.500	207.670	80.246	1.685
99.5	1.896	76.876	200.298	291.917	323.510	295.077	204.300	78.350	1.685
100.0	1.896	75.191	196.718	287.494	318.666	290.654	200.720	76.455	1.685
100.5	1.896	73.295	193.558	283.071	313.611	286.441	197.560	74.770	1.896
101.0	1.896	71.821	190.399	278.648	309.188	282.229	194.401	72.874	1.896
101.5	1.896	69.925	187.029	274.436	304.765	277.595	190.820	71.189	1.896
102.0	2.106	68.451	184.081	270.224	299.710	273.804	187.872	69.504	1.896
102.5	2.106	66.766	180.921	266.222	294.866	269.802	184.502	67.819	1.896
103.0	2.106	65.292	177.762	262.010	290.443	265.590	181.343	66.134	1.896
103.5	2.106	63.607	174.603	258.429	286.231	261.378	178.394	64.449	1.896
104.0	2.106	62.132	171.865	254.638	282.018	257.376	175.024	62.764	1.896
104.5	2.106	60.658	168.705	250.215	278.017	253.374	172.075	61.290	2.106
105.0	2.106	59.184	165.967	246.634	273.383	249.583	169.127	59.816	2.106
105.5	2.106	57.709	163.229	242.843	269.381	245.371	166.178	58.341	2.106
106.0	2.106	56.235	160.281	238.841	265.379	241.580	163.019	56.867	2.106
106.5	2.106	54.971	157.543	235.472	260.746	237.788	160.281	55.603	2.106
107.0	2.317	53.497	154.805	231.680	257.165	233.787	157.332	54.129	2.106
107.5	2.317	52.233	151.856	227.679	253.374	230.206	154.805	52.865	2.106
108.0	2.317	50.970	149.118	224.519	249.372	226.626	152.067	51.602	2.106
108.5	2.317	49.495	146.801	220.728	245.581	223.256	149.118	50.127	2.317
109.0	2.317	48.232	144.063	217.148	241.790	219.675	146.380	48.864	2.317
109.5	2.317	46.968	141.325	213.567	238.210	216.095	143.852	47.600	2.317
110.0	2.317	45.915	139.008	210.197	234.418	212.514	141.325	46.336	2.317
110.5	2.317	44.651	136.481	207.038	230.627	208.934	138.587	45.072	2.317

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111.0	2.317	43.387	133.953	203.668	227.257	205.985	136.060	44.019	2.317
111.5	2.527	42.334	131.637	200.509	223.677	202.404	133.322	42.756	2.317
112.0	2.527	41.071	129.109	196.928	220.307	199.035	131.005	41.492	2.317
112.5	2.527	40.018	126.582	194.190	216.727	195.875	128.477	40.439	2.527
113.0	2.527	38.964	124.476	190.610	213.146	192.716	125.950	39.175	2.527
113.5	2.527	37.911	121.738	187.451	209.565	189.135	123.633	38.122	2.527
114.0	2.527	36.648	119.631	184.502	206.617	185.976	121.316	37.069	2.527
114.5	2.527	35.595	117.315	181.343	203.036	183.028	118.789	35.805	2.527
115.0	2.527	34.752	114.998	178.394	199.877	179.868	116.261	34.752	2.527
115.5	2.527	33.488	112.681	175.445	196.507	176.709	113.945	33.699	2.527
116.0	2.527	32.646	110.575	172.075	193.348	173.760	111.628	32.646	2.738
116.5	2.527	31.593	108.258	169.337	190.189	170.812	109.522	31.803	2.738
117.0	2.527	30.540	105.941	166.178	186.819	167.652	107.205	30.750	2.738
117.5	2.527	29.487	103.835	163.440	183.870	164.704	104.888	29.697	2.738
118.0	2.527	28.644	101.939	160.281	180.711	161.755	102.782	28.644	2.738
118.5	2.527	27.591	99.833	157.543	177.762	158.806	100.676	27.802	2.738
119.0	2.527	26.749	97.727	154.805	174.603	156.068	98.570	26.749	2.738
119.5	2.527	25.695	95.621	152.067	171.444	153.330	96.463	25.906	2.738
120.0	2.527	24.853	93.515	148.907	168.495	150.171	94.147	24.853	2.738
120.5	2.527	24.011	91.408	146.591	165.336	147.433	92.251	24.011	2.949
121.0	2.527	22.957	89.513	143.642	162.176	144.695	90.145	23.168	2.949
121.5	2.527	21.904	87.617	140.904	159.649	141.957	88.249	22.115	2.949
122.0	2.527	21.062	85.722	138.166	156.279	139.219	86.354	21.272	2.949
122.5	2.527	20.219	83.616	135.428	153.541	136.270	84.458	20.430	2.949
123.0	2.527	19.377	81.720	132.900	150.592	133.743	82.352	19.588	2.949
123.5	2.527	18.534	79.824	130.162	147.644	131.215	80.456	18.745	2.949
124.0	2.527	17.692	78.139	127.424	144.906	128.477	78.561	17.903	2.949
124.5	2.527	16.849	76.244	124.897	142.168	125.529	76.665	17.060	3.159
125.0	2.527	16.007	74.348	122.369	139.430	123.001	74.770	16.218	3.159
125.5	2.527	15.165	72.453	119.842	136.481	120.474	72.874	15.375	3.159
126.0	2.527	14.533	70.557	117.525	133.743	117.946	70.978	14.533	3.159
126.5	2.527	13.690	68.872	114.998	131.005	115.419	69.294	13.690	3.159
127.0	2.527	12.848	67.187	112.470	128.056	112.892	67.609	13.058	3.159
127.5	2.527	12.216	65.502	110.154	125.529	110.364	65.713	12.216	3.159
128.0	2.527	11.373	63.607	107.626	123.001	108.258	64.028	11.584	3.370
128.5	2.527	10.742	61.711	105.309	120.474	105.941	62.343	10.952	3.370
129.0	2.527	10.110	60.026	102.782	117.736	103.414	60.658	10.320	3.370
129.5	2.527	9.688	58.552	100.465	115.208	101.097	58.973	9.899	3.370
130.0	2.738	9.057	57.078	98.148	112.681	98.780	57.499	9.267	3.370
130.5	2.738	8.635	55.182	96.042	110.154	96.674	55.814	8.846	3.581
131.0	2.738	8.214	53.708	93.936	107.626	94.147	54.129	8.425	3.581
131.5	2.738	7.793	52.233	91.619	105.099	92.040	52.655	8.004	3.581
132.0	2.738	7.372	50.548	89.513	102.571	89.724	50.970	7.582	3.581
132.5	2.738	6.950	49.074	87.196	100.254	87.617	49.495	7.161	3.581
133.0	2.738	6.740	47.600	84.879	97.938	85.301	48.021	6.950	3.791
133.5	2.738	6.529	45.915	82.773	95.410	83.194	46.336	6.740	3.791
134.0	2.738	6.319	44.230	80.667	93.304	80.878	44.862	6.529	3.791
134.5	2.738	6.108	42.545	78.561	90.777	78.771	43.387	6.319	3.791
135.0	2.738	5.897	40.860	76.455	88.460	76.665	41.913	6.108	3.791
135.5	2.738	5.687	39.386	74.138	86.143	74.559	40.439	5.897	3.791
136.0	2.738	5.476	37.701	72.032	83.826	72.453	38.964	5.687	3.791
136.5	2.738	5.476	36.226	70.136	81.509	70.347	37.701	5.687	4.002
137.0	2.738	5.265	34.541	68.240	79.193	68.240	36.226	5.476	4.002
137.5	2.738	5.265	33.067	66.134	77.086	66.345	34.752	5.476	4.002
138.0	2.738	5.055	31.593	64.028	74.980	64.239	33.488	5.265	4.002
138.5	2.738	5.055	30.329	62.132	72.874	62.343	32.225	5.265	4.002

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139.0	2.949	5.055	28.855	60.237	70.768	60.237	30.961	5.055	4.212
139.5	2.949	4.844	27.380	58.341	68.662	58.552	29.697	5.055	4.212
140.0	2.949	4.844	26.117	56.446	66.555	56.446	28.223	5.055	4.212
140.5	2.949	4.844	24.853	54.340	64.449	54.550	26.959	4.844	4.212
141.0	2.949	4.634	23.800	52.655	62.343	52.655	25.695	4.844	4.212
141.5	2.949	4.634	22.536	50.759	60.237	50.970	24.432	4.844	4.423
142.0	2.949	4.634	21.483	49.074	58.341	49.074	23.168	4.844	4.423
142.5	2.949	4.423	20.430	47.179	56.235	47.179	21.904	4.634	4.423
143.0	2.949	4.423	19.377	45.494	54.340	45.283	20.851	4.634	4.423
143.5	3.159	4.423	18.324	43.598	52.444	43.598	19.588	4.634	4.423
144.0	3.159	4.423	17.271	41.913	50.338	41.913	18.534	4.423	4.423
144.5	3.159	4.423	16.218	40.228	48.442	40.018	17.271	4.423	4.634
145.0	3.159	4.212	15.375	38.333	46.547	38.333	16.218	4.423	4.634
145.5	3.159	4.212	14.322	36.648	44.651	36.648	15.165	4.423	4.634
146.0	3.159	4.212	13.480	35.173	42.756	34.963	14.111	4.423	4.634
146.5	3.159	4.212	12.637	33.488	40.860	33.278	13.269	4.423	4.634
147.0	3.159	4.212	11.795	31.803	39.175	31.593	12.426	4.212	4.634
147.5	3.159	4.212	10.952	30.118	37.279	30.118	11.584	4.212	4.844
148.0	3.370	4.212	10.320	28.434	35.595	28.434	10.952	4.212	4.844
148.5	3.370	4.212	9.688	26.749	33.699	26.959	10.320	4.212	4.844
149.0	3.370	4.212	9.267	24.853	32.014	25.274	9.688	4.212	4.844
149.5	3.370	4.212	8.635	23.379	30.329	23.800	9.267	4.212	4.844
150.0	3.370	4.212	8.214	21.694	28.644	22.326	8.846	4.423	4.844
150.5	3.370	4.212	8.004	20.219	26.959	20.851	8.425	4.212	5.055
151.0	3.370	4.212	7.582	18.745	25.274	19.377	8.004	4.212	5.055
151.5	3.581	4.212	7.372	17.481	23.800	18.113	7.793	4.423	5.055
152.0	3.581	4.423	7.161	16.007	22.115	16.639	7.372	4.423	5.055
152.5	3.581	4.423	6.950	14.954	20.641	15.375	7.161	4.423	5.055
153.0	3.581	4.423	6.740	13.901	18.956	14.111	6.950	4.423	5.055
153.5	3.581	4.423	6.529	12.848	17.481	13.058	6.740	4.423	5.055
154.0	3.581	4.423	6.319	11.795	16.007	12.216	6.529	4.423	5.265
154.5	3.791	4.423	6.108	10.952	14.743	11.163	6.319	4.423	5.265
155.0	3.791	4.423	5.897	10.110	13.480	10.320	6.108	4.423	5.265
155.5	3.791	4.634	5.897	9.478	12.426	9.688	6.108	4.423	5.265
156.0	3.791	4.634	5.687	8.846	11.373	9.057	5.897	4.634	5.265
156.5	4.002	4.634	5.687	8.214	10.531	8.425	5.687	4.634	5.265
157.0	4.002	4.634	5.476	7.793	9.688	8.004	5.687	4.634	5.265
157.5	4.002	4.634	5.476	7.582	8.846	7.582	5.476	4.634	5.265
158.0	4.002	4.634	5.265	7.161	8.425	7.161	5.476	4.634	5.476
158.5	4.002	4.844	5.265	6.950	7.793	6.950	5.265	4.634	5.476
159.0	4.212	4.844	5.055	6.529	7.372	6.529	5.265	4.844	5.476
159.5	4.212	4.844	5.055	6.319	6.950	6.319	5.055	4.844	5.476
160.0	4.212	4.844	5.055	6.108	6.740	6.108	5.055	4.844	5.476
160.5	4.212	4.844	4.844	5.897	6.319	5.897	5.055	4.844	5.476
161.0	4.212	4.844	4.844	5.687	6.108	5.687	4.844	4.844	5.476
161.5	4.423	4.844	4.844	5.687	5.897	5.687	4.844	4.844	5.476
162.0	4.423	5.055	4.844	5.476	5.687	5.476	4.844	4.844	5.476
162.5	4.423	5.055	4.844	5.265	5.476	5.265	4.844	5.055	5.476
163.0	4.423	5.055	4.844	5.055	5.265	5.265	4.844	5.055	5.687
163.5	4.423	5.055	4.844	5.055	5.055	5.055	4.844	5.055	5.687
164.0	4.634	5.055	4.844	4.844	5.055	4.844	4.844	5.055	5.687
164.5	4.634	5.055	4.844	4.844	4.844	4.844	4.844	5.055	5.687
165.0	4.634	5.265	4.844	4.844	4.844	4.844	4.844	5.055	5.687
165.5	4.634	5.265	4.844	4.844	4.634	4.844	4.844	5.265	5.687
166.0	4.844	5.265	5.055	4.844	4.634	4.634	5.055	5.265	5.687
166.5	4.844	5.265	5.055	4.844	4.634	4.634	5.055	5.265	5.687

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CANDELA TABULATION - (Cont.)

167.0	4.844	5.265	5.055	4.634	4.423	4.634	5.055	5.265	5.687
167.5	4.844	5.265	5.055	4.634	4.423	4.634	5.055	5.265	5.687
168.0	4.844	5.265	5.055	4.634	4.423	4.634	5.055	5.265	5.687
168.5	5.055	5.476	5.055	4.634	4.423	4.634	5.055	5.265	5.687
169.0	5.055	5.476	5.055	4.844	4.423	4.844	5.055	5.476	5.687
169.5	5.055	5.476	5.055	4.844	4.423	4.844	5.055	5.476	5.687
170.0	5.055	5.476	5.055	4.844	4.423	4.634	5.055	5.476	5.687
170.5	5.055	5.476	5.055	4.844	4.423	4.844	5.055	5.476	5.687
171.0	5.055	5.476	5.265	4.844	4.423	4.844	5.055	5.476	5.687
171.5	5.055	5.476	5.265	4.844	4.423	4.844	5.265	5.476	5.687
172.0	5.055	5.476	5.265	4.844	4.423	4.844	5.265	5.476	5.687
172.5	5.265	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
173.0	5.265	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
173.5	5.265	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
174.0	5.265	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
174.5	5.265	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
175.0	5.265	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
175.5	5.476	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
176.0	5.476	5.476	5.265	4.844	4.634	4.844	5.265	5.476	5.687
176.5	5.476	5.476	5.265	5.055	4.634	4.844	5.265	5.476	5.687
177.0	5.476	5.687	5.265	5.055	4.634	4.844	5.265	5.687	5.687
177.5	5.476	5.687	5.265	5.055	4.634	4.844	5.265	5.687	5.687
178.0	5.476	5.687	5.265	5.055	4.634	5.055	5.265	5.687	5.687
178.5	5.476	5.687	5.265	5.055	4.634	5.055	5.265	5.687	5.687
179.0	5.687	5.687	5.265	5.055	4.634	5.055	5.476	5.687	5.687
179.5	5.687	5.687	5.265	5.055	4.634	5.055	5.265	5.687	5.687
180.0	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_3500K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	985.98	N.A.	11.40
0-30	2071.14	N.A.	24.00
0-40	3358.04	N.A.	38.80
0-60	5911.29	N.A.	68.40
0-80	7618.69	N.A.	88.10
0-90	8024.64	N.A.	92.80
10-90	7767.72	N.A.	89.80
20-40	2372.07	N.A.	27.40
20-50	3699.00	N.A.	42.80
40-70	3557.49	N.A.	41.10
60-80	1707.4	N.A.	19.70
70-80	703.15	N.A.	8.10
80-90	405.95	N.A.	4.70
90-110	397.99	N.A.	4.60
90-120	505.50	N.A.	5.80
90-130	569.88	N.A.	6.60
90-150	616.83	N.A.	7.10
90-180	622.59	N.A.	7.20
110-180	224.61	N.A.	2.60
0-180	8647.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256.92
10-20	729.06
20-30	1085.17
30-40	1286.9
40-50	1326.93
50-60	1226.32
60-70	1004.25
70-80	703.15
80-90	405.95
90-100	235.07
100-110	162.92
110-120	107.51
120-130	64.38
130-140	33.37
140-150	13.58
150-160	3.83
160-170	1.44
170-180	0.49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_3500K_.IES

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

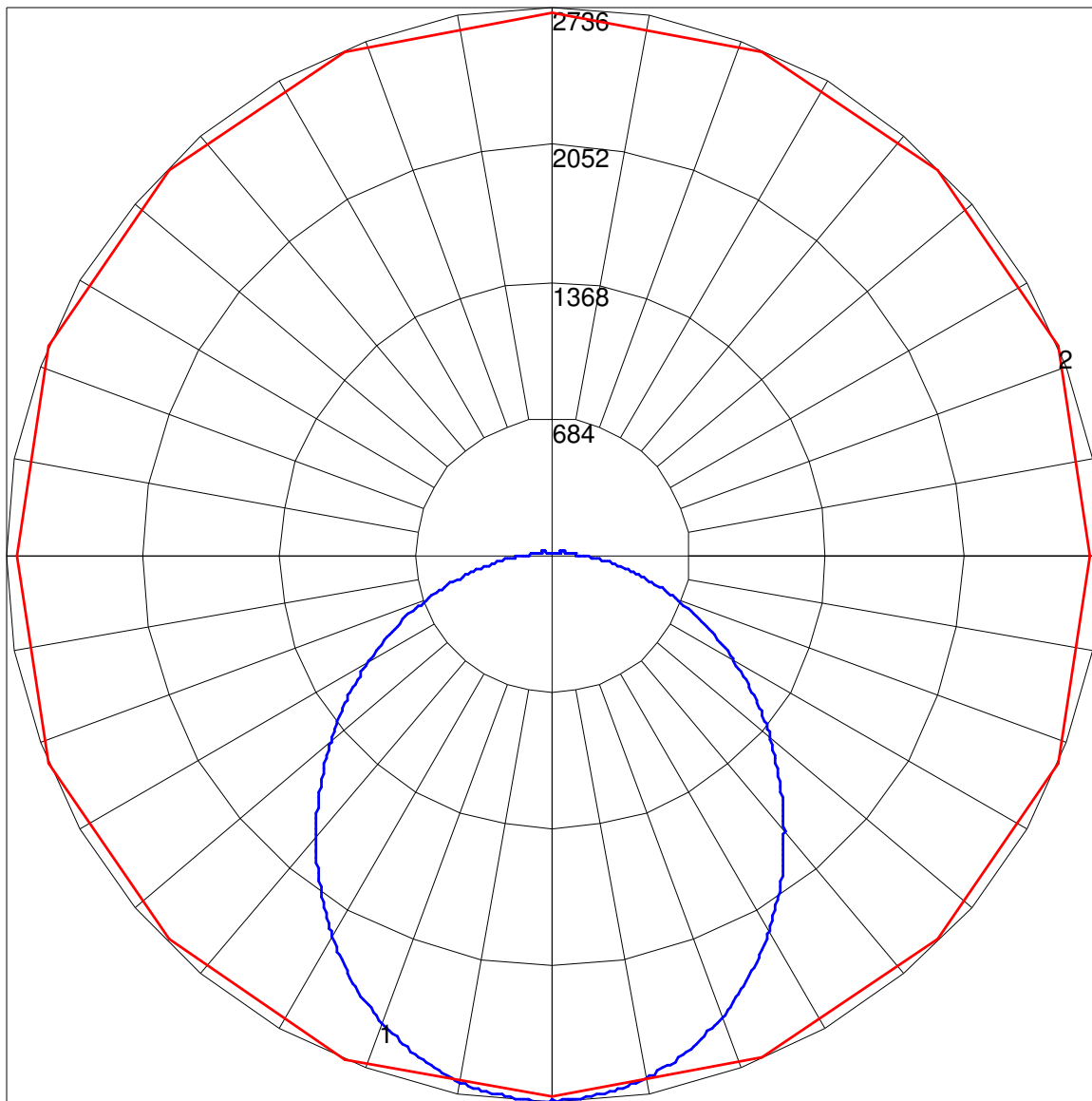
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_3500K_.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.4	18.9	17.9	19.4	19.9	21.1	22.6	21.5	23.1	23.5
	3H	18.7	20.1	19.1	20.5	21.0	23.5	24.9	24.0	25.3	25.9
	4H	19.0	20.4	19.5	20.8	21.4	24.6	25.9	25.1	26.4	26.9
	6H	19.2	20.5	19.8	21.0	21.5	25.7	26.9	26.2	27.4	28.0
	8H	19.3	20.5	19.8	21.0	21.5	26.3	27.4	26.8	28.0	28.5
	12H	19.3	20.4	19.8	20.9	21.5	26.9	28.0	27.4	28.5	29.1
4H	2H	18.4	19.7	18.9	20.2	20.7	21.3	22.6	21.8	23.1	23.7
	3H	19.8	21.0	20.4	21.5	22.0	23.9	25.0	24.4	25.6	26.1
	4H	20.3	21.3	20.8	21.9	22.5	25.1	26.2	25.7	26.7	27.3
	6H	20.6	21.5	21.2	22.1	22.7	26.4	27.3	27.0	27.9	28.5
	8H	20.7	21.5	21.2	22.1	22.7	27.0	27.9	27.6	28.5	29.1
	12H	20.7	21.5	21.3	22.1	22.7	27.7	28.5	28.3	29.1	29.7
8H	4H	21.0	21.8	21.5	22.4	23.0	25.2	26.1	25.8	26.7	27.3
	6H	21.4	22.1	22.0	22.7	23.4	26.6	27.3	27.2	27.9	28.6
	8H	21.6	22.2	22.2	22.8	23.4	27.4	28.0	28.0	28.6	29.2
	12H	21.6	22.2	22.2	22.8	23.5	28.2	28.7	28.8	29.3	30.0
12H	4H	21.1	21.9	21.7	22.5	23.1	25.2	26.0	25.8	26.6	27.2
	6H	21.7	22.3	22.3	22.9	23.6	26.6	27.3	27.2	27.9	28.5
	8H	21.9	22.4	22.5	23.0	23.7	27.4	28.0	28.0	28.6	29.3

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 2735.936 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.)