



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-22-L54-840-SYM-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL 12186363.03
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 11/22/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MDSG-22-L54-840-SYM-DIM-UNV
 [LUMINAIRE] White formed steel housing, frosted patterned plastic lens
 [MORE] enclosure
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Healthcare, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5439
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.67 ft
Luminous Width (90-270)	1.67 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6977	6825	6759
55	5868	5679	5595
65	4856	4659	4696
75	4260	4196	4536
85	4435	4591	5369

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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>
0.0	2330.999	2330.999	2330.999	2330.999	2330.999
0.5	2352.742	2341.746	2324.001	2321.502	2320.753
1.0	2352.242	2341.496	2323.502	2321.002	2320.253
1.5	2351.743	2340.746	2322.752	2320.253	2319.753
2.0	2350.743	2339.746	2322.002	2319.253	2318.753
2.5	2349.493	2338.497	2320.753	2318.003	2317.504
3.0	2347.744	2336.747	2319.003	2316.504	2316.004
3.5	2345.994	2334.998	2317.254	2314.754	2314.255
4.0	2343.495	2332.749	2315.004	2312.755	2312.005
4.5	2341.246	2330.249	2312.755	2310.256	2310.006
5.0	2338.497	2327.500	2310.256	2308.007	2307.507
5.5	2335.498	2324.501	2307.507	2305.008	2304.758
6.0	2332.499	2321.502	2304.258	2302.009	2301.759
6.5	2329.000	2317.753	2300.759	2298.510	2298.510
7.0	2325.001	2314.005	2297.260	2295.011	2295.011
7.5	2320.753	2309.756	2293.011	2291.262	2290.762
8.0	2316.254	2305.258	2289.013	2286.763	2286.763
8.5	2311.256	2300.759	2284.264	2282.515	2281.765
9.0	2306.007	2295.761	2279.766	2277.516	2277.267
9.5	2300.759	2290.512	2274.767	2272.518	2272.018
10.0	2295.011	2284.764	2269.269	2267.270	2267.020
10.5	2289.013	2279.016	2263.521	2261.772	2261.272
11.0	2282.765	2272.768	2257.523	2255.773	2255.274
11.5	2276.017	2266.270	2251.275	2249.525	2249.026
12.0	2269.269	2259.522	2244.527	2243.028	2242.528
12.5	2262.021	2252.524	2237.779	2236.030	2235.780
13.0	2254.774	2245.027	2230.282	2229.032	2228.782
13.5	2246.776	2237.279	2222.784	2221.784	2222.034
14.0	2238.779	2229.282	2215.037	2214.287	2214.037
14.5	2230.532	2221.035	2206.789	2206.039	2206.289
15.0	2221.784	2212.537	2198.292	2198.042	2198.292
15.5	2213.037	2203.540	2189.295	2189.045	2189.545
16.0	2203.790	2194.543	2180.048	2180.298	2180.798
16.5	2194.543	2185.046	2171.051	2171.051	2171.800
17.0	2185.046	2175.299	2161.304	2161.554	2162.304
17.5	2175.549	2165.053	2151.307	2151.807	2152.557
18.0	2165.303	2154.806	2141.060	2141.810	2142.810
18.5	2154.806	2144.559	2130.814	2131.563	2132.313
19.0	2144.309	2133.563	2120.067	2120.817	2122.067
19.5	2133.563	2123.066	2109.321	2109.571	2110.820
20.0	2122.316	2111.820	2098.074	2098.324	2099.824
20.5	2110.570	2100.324	2086.328	2086.578	2088.327
21.0	2098.574	2088.577	2074.582	2074.832	2076.081
21.5	2086.578	2076.581	2062.336	2062.336	2063.835
22.0	2074.332	2064.585	2050.340	2050.090	2051.339
22.5	2061.836	2052.089	2037.594	2037.344	2038.843
23.0	2048.840	2039.093	2024.598	2024.348	2025.598
23.5	2035.594	2026.097	2011.602	2010.852	2012.602
24.0	2022.099	2012.852	1998.356	1997.357	1998.856
24.5	2008.353	1999.356	1984.861	1983.861	1985.610
25.0	1994.358	1985.860	1971.865	1970.615	1971.365
25.5	1980.862	1972.365	1957.869	1956.620	1957.619
26.0	1967.116	1958.369	1943.374	1942.124	1943.124
26.5	1953.121	1943.874	1928.879	1927.379	1928.629

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CANDELA TABULATION - (Cont.)

27.0	1938.376	1929.129	1914.133	1912.634	1913.884
27.5	1923.630	1913.884	1898.888	1897.389	1898.638
28.0	1908.385	1898.638	1883.643	1881.894	1883.143
28.5	1892.890	1883.143	1868.148	1866.149	1867.399
29.0	1877.145	1867.399	1852.153	1850.404	1851.154
29.5	1861.151	1851.654	1836.159	1834.159	1835.159
30.0	1845.156	1835.409	1819.914	1817.665	1818.914
30.5	1828.911	1819.164	1803.419	1801.170	1802.419
31.0	1812.416	1802.669	1786.675	1784.425	1785.675
31.5	1795.422	1785.925	1769.930	1767.431	1768.930
32.0	1778.677	1769.180	1752.935	1750.186	1751.436
32.5	1761.433	1751.936	1735.691	1732.442	1733.942
33.0	1744.188	1734.691	1718.197	1714.948	1715.947
33.5	1726.444	1717.197	1700.702	1696.953	1697.953
34.0	1708.950	1699.453	1682.708	1678.959	1680.209
34.5	1690.955	1681.458	1664.714	1660.465	1661.465
35.0	1672.961	1663.214	1646.470	1641.721	1642.971
35.5	1654.967	1644.720	1627.976	1623.227	1624.477
36.0	1636.473	1625.976	1609.482	1604.483	1605.233
36.5	1617.729	1607.232	1590.738	1585.239	1586.239
37.0	1598.485	1588.238	1571.494	1565.996	1566.495
37.5	1579.241	1568.995	1552.250	1546.502	1546.502
38.0	1559.748	1549.751	1532.756	1526.758	1526.758
38.5	1540.254	1530.007	1513.013	1507.015	1506.765
39.0	1520.510	1510.264	1493.269	1487.271	1486.521
39.5	1500.767	1490.270	1473.275	1467.027	1466.278
40.0	1480.773	1470.027	1453.282	1446.784	1446.034
40.5	1460.280	1449.783	1433.038	1426.291	1425.291
41.0	1440.036	1429.789	1412.795	1405.547	1404.298
41.5	1418.793	1409.296	1392.302	1384.804	1383.304
42.0	1398.300	1389.053	1371.558	1363.811	1362.311
42.5	1377.806	1368.559	1350.815	1342.817	1341.068
43.0	1357.063	1347.816	1330.072	1321.574	1320.075
43.5	1336.570	1327.073	1309.328	1300.081	1299.082
44.0	1316.076	1306.329	1288.335	1278.838	1277.589
44.5	1295.333	1285.336	1267.592	1257.345	1256.345
45.0	1274.839	1264.843	1247.098	1236.102	1235.102
45.5	1254.096	1244.099	1226.105	1214.859	1213.609
46.0	1233.853	1223.356	1205.362	1193.616	1192.366
46.5	1212.859	1202.613	1184.369	1172.372	1170.873
47.0	1192.366	1181.619	1163.125	1151.129	1149.380
47.5	1171.623	1160.876	1142.132	1129.886	1128.636
48.0	1151.129	1139.883	1121.389	1108.893	1107.643
48.5	1130.386	1118.890	1100.396	1088.150	1086.900
49.0	1109.893	1098.396	1079.902	1067.656	1066.157
49.5	1088.899	1077.903	1059.409	1047.413	1045.413
50.0	1068.156	1057.409	1038.915	1027.169	1024.920
50.5	1047.413	1037.166	1018.422	1006.926	1004.426
51.0	1026.919	1016.922	998.178	986.682	984.183
51.5	1006.676	996.429	977.685	966.689	963.940
52.0	986.682	976.186	957.692	946.945	944.196
52.5	966.439	955.942	937.948	927.201	924.702
53.0	946.695	936.448	918.704	907.708	905.208
53.5	927.201	917.205	898.960	888.464	885.965
54.0	907.458	897.961	879.967	869.220	866.721
54.5	888.714	878.717	860.723	850.226	847.727

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55.0	869.720	859.473	841.729	830.982	829.233
55.5	850.976	840.479	822.985	812.488	810.739
56.0	832.482	821.735	804.241	793.744	792.245
56.5	813.988	802.991	785.997	775.750	774.251
57.0	795.744	784.497	767.753	757.756	756.756
57.5	777.999	766.503	750.008	740.262	739.512
58.0	760.255	748.759	732.514	723.017	722.517
58.5	742.511	731.015	714.770	706.023	705.773
59.0	725.016	713.520	697.275	689.278	689.278
59.5	707.272	696.026	680.031	672.783	672.783
60.0	690.028	678.781	662.787	656.539	657.038
60.5	673.033	661.787	646.292	640.794	641.293
61.0	656.289	645.042	629.797	625.299	625.798
61.5	639.794	628.548	613.802	610.054	610.803
62.0	623.299	612.553	598.057	595.308	596.308
62.5	607.054	596.808	582.562	580.813	581.813
63.0	591.060	581.313	567.317	566.568	567.317
63.5	575.565	565.568	552.072	552.322	553.322
64.0	560.070	550.323	537.077	538.327	539.576
64.5	545.324	535.328	522.582	524.831	526.081
65.0	530.329	520.582	508.836	511.335	512.835
65.5	515.834	506.337	495.091	498.339	500.339
66.0	501.838	492.341	481.845	485.844	487.843
66.5	487.843	478.846	468.849	473.348	476.097
67.0	474.347	465.350	455.853	461.101	464.350
67.5	460.852	452.104	442.857	448.855	452.354
68.0	447.856	439.109	430.611	437.109	440.858
68.5	434.860	426.363	418.115	425.613	429.862
69.0	422.114	413.867	406.119	414.117	419.115
69.5	409.868	401.621	394.623	403.120	408.868
70.0	397.372	389.625	383.377	392.374	398.622
70.5	385.376	377.878	372.130	382.127	388.375
71.0	373.630	366.632	361.384	371.630	378.378
71.5	361.634	355.386	350.387	361.384	368.881
72.0	349.887	344.139	339.641	351.387	359.134
72.5	338.641	333.143	329.394	341.390	349.387
73.0	327.395	322.146	319.147	331.643	339.891
73.5	316.398	311.400	309.150	321.896	330.394
74.0	305.901	300.903	299.404	312.649	321.396
74.5	295.155	290.656	289.907	303.402	312.649
75.0	284.908	280.660	280.660	294.405	303.402
75.5	274.662	270.913	271.413	285.658	294.405
76.0	264.915	261.166	262.166	276.661	285.408
76.5	255.168	251.419	252.919	267.664	276.661
77.0	245.846	241.847	243.921	258.667	267.914
77.5	236.399	232.450	235.024	249.920	258.917
78.0	226.952	223.128	226.327	241.347	250.169
78.5	217.680	213.956	217.780	232.925	241.622
79.0	208.708	204.934	209.208	224.403	233.150
79.5	199.936	196.062	200.385	215.980	224.428
80.0	191.188	187.315	191.788	207.608	215.556
80.5	182.141	178.542	183.066	199.286	206.958
81.0	173.144	169.745	174.319	190.864	198.111
81.5	164.047	160.773	165.572	182.241	189.064
82.0	155.100	151.826	156.799	173.644	179.917
82.5	146.228	142.929	148.052	165.222	170.645

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CANDELA TABULATION - (Cont.)

83.0	137.381	134.132	139.330	156.799	161.248
83.5	128.259	125.310	130.533	148.177	151.601
84.0	118.962	116.512	121.586	139.230	141.754
84.5	109.515	107.515	112.489	129.933	131.533
85.0	99.893	98.368	103.392	120.286	120.911
85.5	90.271	89.071	94.145	110.589	109.990
86.0	80.324	79.699	84.998	100.293	98.743
86.5	69.853	70.102	75.676	89.496	87.472
87.0	59.306	60.381	65.879	78.500	76.350
87.5	48.709	50.409	55.882	67.278	65.129
88.0	38.138	40.587	46.035	56.032	54.108
88.5	27.791	30.915	36.238	44.961	43.411
89.0	17.919	21.718	26.991	34.414	33.039
89.5	9.022	13.296	18.644	24.717	23.717
90.0	2.774	6.698	11.671	16.195	15.495
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MDSG-22-L54-840-SYM-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MDSG-22-L54-840-SYM-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MDSG-22-L54-840-SYM-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	840.80	N.A.	15.50
0-30	1750.35	N.A.	32.20
0-40	2781.46	N.A.	51.10
0-60	4503.27	N.A.	82.80
0-80	5323.69	N.A.	97.90
0-90	5438.81	N.A.	100.00
10-90	5218.93	N.A.	96.00
20-40	1940.66	N.A.	35.70
20-50	2904.47	N.A.	53.40
40-70	2236.52	N.A.	41.10
60-80	820.41	N.A.	15.10
70-80	305.71	N.A.	5.60
80-90	115.12	N.A.	2.10
90-110	0.30	N.A.	0.00
90-120	0.30	N.A.	0.00
90-130	0.30	N.A.	0.00
90-150	0.30	N.A.	0.00
90-180	0.30	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5439.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.87
10-20	620.93
20-30	909.55
30-40	1031.1
40-50	963.81
50-60	758.00
60-70	514.70
70-80	305.71
80-90	115.12
90-100	0.30
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MDSG-22-L54-840-SYM-DIM-UNV_.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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MDSG-22-L54-840-SYM-DIM-UNV_.IES

UGR TABLE - CORRECTED

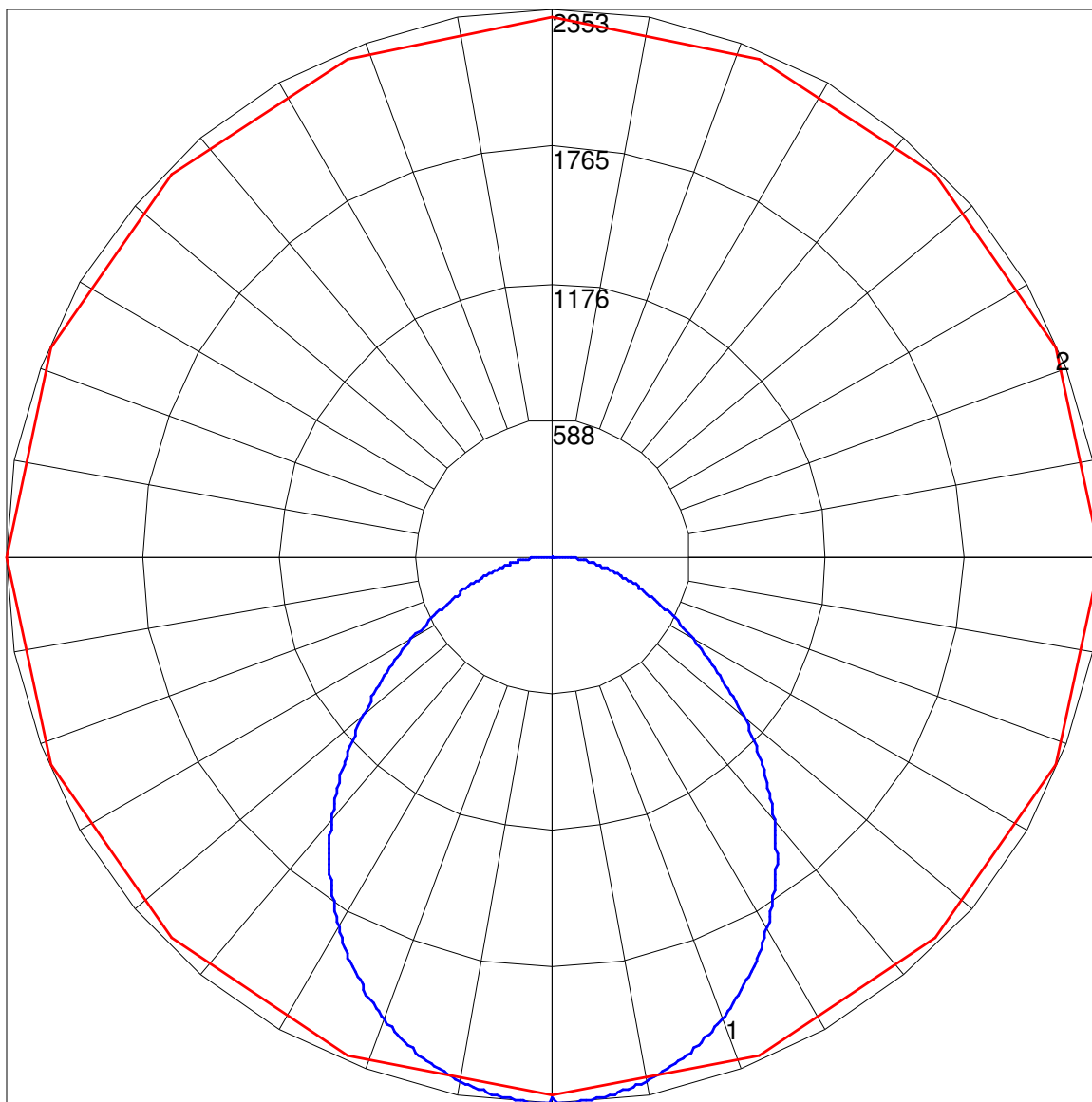
Reflectances

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	17.7	19.2	18.0	19.5	19.8	17.4	19.0	17.8	19.3	19.6
	3H	19.2	20.6	19.6	20.9	21.3	19.0	20.4	19.4	20.7	21.1
	4H	19.8	21.1	20.2	21.5	21.9	19.7	21.0	20.1	21.4	21.8
	6H	20.3	21.6	20.8	21.9	22.3	20.4	21.6	20.8	22.0	22.4
	8H	20.5	21.7	21.0	22.1	22.5	20.7	21.8	21.1	22.2	22.6
	12H	20.7	21.8	21.2	22.2	22.6	20.9	22.0	21.4	22.4	22.8
4H	2H	18.1	19.5	18.5	19.8	20.2	17.9	19.2	18.3	19.6	20.0
	3H	19.9	21.0	20.3	21.4	21.8	19.8	20.9	20.2	21.3	21.7
	4H	20.7	21.7	21.1	22.1	22.5	20.6	21.6	21.1	22.1	22.5
	6H	21.4	22.2	21.8	22.7	23.1	21.5	22.3	21.9	22.8	23.2
	8H	21.6	22.4	22.1	22.9	23.4	21.8	22.7	22.3	23.1	23.6
	12H	21.9	22.6	22.4	23.1	23.6	22.2	22.9	22.7	23.4	23.8
8H	4H	21.0	21.8	21.4	22.2	22.7	20.9	21.8	21.4	22.2	22.7
	6H	21.8	22.5	22.3	23.0	23.4	21.9	22.6	22.4	23.1	23.6
	8H	22.2	22.8	22.7	23.3	23.8	22.4	23.0	22.9	23.5	24.0
	12H	22.5	23.1	23.0	23.6	24.1	22.9	23.4	23.4	23.9	24.5
12H	4H	21.0	21.7	21.5	22.2	22.7	21.0	21.7	21.5	22.2	22.7
	6H	21.9	22.5	22.4	23.0	23.5	22.0	22.6	22.5	23.1	23.6
	8H	22.3	22.9	22.8	23.4	23.9	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 2352.742 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)