



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12186363.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 11-03-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MDSx-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV  
 [LUMINAIRE] White formed steel housing, frosted plastic patterned lens  
 [LAMP] 336 white LEDs  
 [\_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	11984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	114
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.67 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9674	8767	6965
55	8430	7649	5977
65	6861	6276	5011
75	5810	5166	4303
85	5501	4629	4202

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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	4923.285	4923.285	4923.285	4923.285	4923.285	4923.285	4923.285	4923.285	4923.285
0.5	4937.455	4928.386	4924.418	4940.856	4959.560	4925.552	4896.078	4892.110	4897.779
1.0	4956.160	4945.957	4938.589	4946.524	4958.994	4917.050	4881.341	4873.406	4877.373
1.5	4975.431	4963.528	4950.492	4952.759	4957.293	4907.981	4866.037	4853.568	4856.968
2.0	4993.002	4979.399	4962.395	4958.427	4955.026	4898.345	4850.167	4833.163	4835.430
2.5	5009.439	4994.703	4973.731	4964.095	4952.192	4888.143	4833.729	4813.324	4813.324
3.0	5027.011	5010.573	4984.500	4968.063	4949.925	4877.373	4816.158	4792.352	4791.786
3.5	5043.448	5025.877	4994.703	4972.030	4945.957	4866.604	4799.721	4770.814	4769.113
4.0	5058.752	5039.480	5004.905	4975.431	4941.989	4854.701	4782.150	4748.708	4745.874
4.5	5074.055	5053.084	5013.974	4978.832	4937.455	4842.231	4763.445	4726.036	4721.502
5.0	5088.226	5065.553	5022.476	4981.099	4931.787	4830.329	4744.174	4702.797	4697.696
5.5	5101.262	5078.023	5031.545	4982.800	4926.119	4816.725	4724.336	4680.691	4672.189
6.0	5114.299	5089.359	5038.913	4983.933	4919.884	4803.122	4704.497	4656.886	4646.683
6.5	5127.902	5101.262	5045.148	4983.933	4912.516	4788.385	4685.226	4631.946	4620.610
7.0	5139.238	5111.465	5051.383	4983.933	4905.147	4773.648	4664.821	4607.007	4593.403
7.5	5150.008	5121.100	5057.618	4983.366	4896.645	4758.344	4643.282	4581.500	4566.196
8.0	5160.777	5130.736	5062.719	4982.233	4887.576	4742.473	4621.177	4555.994	4538.423
8.5	5170.979	5139.805	5066.687	4980.532	4878.507	4726.036	4597.938	4529.921	4510.083
9.0	5180.048	5147.740	5071.221	4978.832	4868.871	4708.465	4575.265	4504.415	4484.576
9.5	5189.117	5155.109	5074.622	4975.431	4857.535	4690.327	4551.460	4478.908	4455.102
10.0	5197.053	5161.911	5078.023	4972.030	4846.766	4672.756	4527.654	4451.135	4425.062
10.5	5204.421	5168.712	5080.290	4968.063	4834.863	4654.052	4503.281	4422.794	4394.454
11.0	5211.790	5173.813	5081.424	4963.528	4822.393	4633.080	4480.042	4393.320	4363.846
11.5	5218.591	5179.482	5082.558	4958.427	4809.923	4612.675	4455.102	4363.846	4332.672
12.0	5224.826	5184.016	5082.558	4952.192	4796.320	4592.836	4428.462	4334.372	4300.931
12.5	5231.061	5187.984	5082.558	4945.957	4782.717	4571.865	4401.822	4303.765	4268.623
13.0	5236.162	5191.385	5081.991	4939.155	4767.413	4550.326	4374.616	4272.024	4235.748
13.5	5240.697	5193.652	5080.290	4931.220	4752.676	4527.654	4346.842	4240.283	4203.440
14.0	5244.664	5195.919	5078.590	4922.718	4737.372	4507.249	4319.069	4208.541	4169.998
14.5	5248.065	5197.053	5075.189	4913.082	4720.935	4484.576	4290.162	4175.667	4136.557
15.0	5250.899	5198.186	5071.221	4902.880	4704.497	4462.471	4260.688	4142.225	4101.982
15.5	5253.166	5197.619	5066.687	4892.677	4686.926	4438.665	4230.647	4108.217	4067.973
16.0	5254.300	5197.053	5061.019	4881.908	4669.355	4414.292	4200.606	4073.641	4033.398
16.5	5254.300	5195.919	5054.784	4870.005	4651.218	4389.353	4169.998	4039.633	3998.256
17.0	5253.733	5194.219	5048.549	4856.968	4632.513	4363.846	4138.824	4004.491	3962.547
17.5	5252.600	5190.818	5041.181	4843.932	4612.108	4338.340	4107.083	3969.916	3926.271
18.0	5250.332	5186.850	5033.245	4830.329	4591.703	4312.267	4075.342	3933.640	3889.996
18.5	5246.932	5182.316	5024.743	4815.592	4571.865	4285.627	4043.601	3897.364	3853.153
19.0	5242.397	5177.214	5014.541	4800.855	4550.326	4258.420	4010.726	3861.089	3815.744
19.5	5237.296	5170.979	5004.338	4786.118	4529.354	4230.647	3977.851	3824.813	3777.768
20.0	5232.195	5164.178	4993.002	4770.247	4507.815	4202.306	3944.409	3787.404	3739.792
20.5	5224.259	5156.809	4980.532	4753.243	4485.710	4174.533	3909.834	3750.561	3701.249
21.0	5217.458	5147.174	4968.063	4736.239	4464.171	4145.626	3875.826	3712.585	3662.139
21.5	5208.956	5138.105	4955.026	4718.668	4440.365	4116.719	3841.817	3675.176	3623.030
22.0	5199.320	5127.902	4941.989	4700.530	4415.993	4086.678	3806.675	3636.066	3582.786
22.5	5189.117	5116.566	4927.819	4681.258	4391.053	4056.070	3771.533	3596.957	3543.110
23.0	5178.348	5104.663	4913.082	4661.420	4365.547	4025.463	3736.391	3557.847	3502.867
23.5	5167.012	5092.760	4897.212	4641.582	4340.041	3994.288	3700.116	3518.737	3462.057
24.0	5155.109	5079.724	4880.208	4621.177	4313.967	3962.547	3664.407	3479.061	3421.247
24.5	5142.072	5065.553	4863.770	4600.205	4287.327	3930.239	3626.997	3438.818	3380.436
25.0	5127.902	5050.816	4846.199	4577.533	4259.554	3897.931	3590.155	3398.574	3339.626
25.5	5113.732	5034.946	4828.061	4555.994	4232.347	3865.056	3552.746	3357.764	3298.249
26.0	5098.428	5019.075	4809.357	4532.755	4203.440	3831.615	3515.336	3318.088	3257.439
26.5	5083.124	5002.071	4790.652	4509.516	4175.667	3797.606	3477.927	3277.278	3215.496

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## CANDELA TABULATION - (Cont.)

27.0	5066.687	4984.500	4770.814	4485.143	4146.759	3763.598	3439.384	3236.467	3174.119
27.5	5049.683	4965.795	4750.409	4461.904	4116.719	3728.456	3400.841	3195.091	3132.175
28.0	5032.679	4947.091	4728.870	4436.965	4086.678	3693.881	3362.865	3154.280	3090.798
28.5	5013.407	4927.252	4706.765	4410.891	4056.070	3658.739	3323.756	3114.037	3049.421
29.0	4993.002	4906.847	4684.092	4385.385	4024.896	3623.030	3284.646	3073.794	3007.477
29.5	4971.463	4884.742	4660.286	4358.178	3993.155	3587.321	3244.970	3033.551	2965.534
30.0	4950.492	4862.637	4637.047	4330.972	3961.414	3551.612	3205.860	2992.740	2924.157
30.5	4928.386	4839.397	4612.108	4302.064	3928.539	3515.903	3166.750	2951.930	2882.780
31.0	4905.714	4815.025	4586.035	4273.157	3895.097	3479.628	3128.207	2911.120	2840.269
31.5	4883.042	4790.652	4559.395	4244.250	3861.655	3442.218	3089.098	2870.310	2798.326
32.0	4860.936	4764.579	4532.188	4214.776	3827.647	3404.809	3049.421	2829.500	2756.382
32.5	4836.563	4738.506	4504.981	4184.169	3793.639	3367.967	3009.178	2789.257	2715.572
33.0	4813.324	4710.732	4476.641	4153.561	3759.063	3330.557	2970.068	2749.580	2674.195
33.5	4788.952	4682.392	4447.167	4121.820	3723.355	3293.148	2930.392	2709.337	2633.385
34.0	4763.445	4652.351	4416.559	4088.945	3687.646	3255.739	2891.282	2669.094	2592.575
34.5	4736.805	4621.177	4384.818	4054.370	3651.370	3217.196	2851.606	2629.417	2552.332
35.0	4709.599	4589.436	4352.510	4019.795	3614.528	3178.086	2811.929	2589.741	2512.088
35.5	4681.825	4557.694	4319.635	3984.086	3577.685	3138.977	2772.253	2550.064	2471.845
36.0	4652.351	4524.253	4285.627	3947.810	3539.709	3099.867	2733.710	2510.955	2432.735
36.5	4620.043	4491.378	4250.485	3911.535	3502.300	3060.757	2694.600	2471.278	2393.626
37.0	4587.168	4457.936	4214.209	3874.692	3464.324	3021.648	2655.490	2432.735	2355.650
37.5	4552.593	4421.094	4177.367	3836.716	3425.781	2982.538	2615.814	2394.192	2317.673
38.0	4515.751	4383.685	4139.391	3797.606	3386.671	2943.428	2576.137	2356.783	2280.264
38.5	4480.609	4344.008	4100.848	3757.930	3345.861	2903.185	2537.028	2319.374	2242.855
39.0	4440.365	4303.765	4061.172	3717.120	3305.618	2863.509	2497.918	2281.398	2205.446
39.5	4400.122	4263.522	4020.928	3676.310	3265.375	2823.265	2458.808	2243.989	2168.036
40.0	4358.178	4222.145	3979.551	3635.500	3224.565	2783.022	2420.266	2206.579	2131.194
40.5	4315.101	4179.634	3937.608	3594.123	3183.754	2742.779	2381.723	2169.737	2094.352
41.0	4270.323	4135.990	3894.530	3552.746	3142.944	2702.535	2343.180	2133.461	2058.076
41.5	4224.412	4091.212	3849.753	3510.235	3100.434	2662.292	2304.637	2097.186	2022.934
42.0	4177.934	4044.734	3804.975	3467.725	3058.490	2622.049	2266.661	2061.477	1987.792
42.5	4129.755	3997.689	3759.630	3423.514	3015.980	2582.372	2228.685	2025.768	1953.217
43.0	4082.710	3949.511	3713.719	3378.736	2972.902	2541.562	2191.276	1990.626	1918.075
43.5	4034.532	3900.198	3667.241	3333.958	2929.258	2500.752	2153.866	1954.917	1883.499
44.0	3986.353	3850.886	3620.196	3289.181	2886.181	2459.375	2117.024	1919.775	1848.924
44.5	3937.608	3801.007	3572.584	3243.836	2842.537	2417.998	2079.615	1885.767	1815.483
45.0	3888.295	3750.561	3523.839	3197.925	2799.459	2377.755	2043.906	1851.758	1782.041
45.5	3837.850	3699.549	3474.526	3152.013	2756.949	2338.079	2007.630	1818.317	1750.300
46.0	3786.837	3646.836	3425.781	3106.102	2713.871	2298.969	1971.921	1785.442	1719.125
46.5	3734.691	3593.556	3374.768	3059.057	2670.227	2258.726	1935.646	1752.000	1687.384
47.0	3680.844	3539.142	3324.889	3011.445	2626.583	2218.482	1899.937	1720.259	1656.210
47.5	3626.997	3485.863	3274.444	2963.267	2582.372	2178.239	1864.795	1688.518	1625.602
48.0	3572.017	3431.449	3223.431	2915.088	2538.161	2137.996	1829.653	1656.210	1594.995
48.5	3514.770	3377.036	3172.985	2866.343	2495.651	2098.319	1795.644	1625.035	1565.521
49.0	3458.656	3323.189	3123.106	2819.298	2453.140	2059.776	1761.636	1594.428	1536.047
49.5	3399.708	3268.775	3070.960	2771.686	2410.630	2021.800	1727.627	1563.820	1507.140
50.0	3340.193	3213.795	3019.380	2724.074	2368.686	1983.824	1694.753	1534.913	1478.799
50.5	3280.678	3157.681	2967.234	2676.462	2325.042	1946.415	1661.878	1506.006	1451.026
51.0	3220.597	3101.001	2914.521	2628.850	2282.531	1909.006	1629.003	1476.532	1423.252
51.5	3161.649	3044.887	2862.375	2580.672	2238.887	1871.596	1596.695	1448.192	1395.479
52.0	3102.134	2988.773	2809.662	2533.060	2196.377	1833.620	1564.387	1419.851	1368.272
52.5	3043.186	2932.659	2757.516	2485.448	2154.433	1796.778	1532.646	1392.078	1340.498
53.0	2984.238	2877.112	2704.803	2437.837	2113.623	1759.935	1502.038	1364.304	1313.292
53.5	2924.157	2821.565	2652.090	2390.792	2071.679	1724.793	1471.431	1337.098	1286.652
54.0	2865.776	2765.451	2599.377	2344.880	2030.869	1689.651	1441.390	1310.458	1261.145
54.5	2806.261	2708.203	2546.663	2297.835	1989.492	1655.076	1411.349	1284.384	1235.639

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## CANDELA TABULATION - (Cont.)

55.0	2748.447	2650.389	2493.950	2251.357	1948.682	1620.501	1381.875	1258.311	1210.133
55.5	2691.766	2592.575	2441.237	2203.745	1908.439	1585.926	1352.401	1232.238	1185.760
56.0	2635.085	2535.894	2389.091	2157.267	1867.629	1551.351	1323.494	1206.732	1161.387
56.5	2578.405	2479.780	2336.945	2110.789	1827.385	1516.775	1295.154	1181.792	1137.015
57.0	2522.858	2424.233	2285.932	2064.311	1787.709	1483.334	1267.380	1156.853	1113.209
57.5	2467.310	2369.253	2234.920	2018.399	1749.166	1450.459	1240.174	1132.480	1089.970
58.0	2410.063	2314.839	2184.474	1973.055	1710.056	1418.718	1212.967	1108.674	1067.864
58.5	2352.815	2260.426	2133.461	1928.844	1671.514	1387.543	1186.327	1085.435	1045.759
59.0	2296.702	2205.446	2082.449	1884.066	1632.971	1355.802	1159.687	1062.196	1024.787
59.5	2240.588	2150.465	2032.003	1839.288	1594.428	1324.628	1133.047	1040.091	1003.248
60.0	2185.607	2096.052	1981.557	1794.511	1555.885	1292.320	1106.974	1017.418	982.276
60.5	2130.060	2042.772	1932.245	1749.166	1518.476	1261.712	1082.034	995.313	961.305
61.0	2073.946	1991.193	1883.499	1704.955	1482.200	1231.671	1056.528	973.207	941.466
61.5	2018.399	1940.180	1835.321	1661.878	1446.491	1201.631	1032.155	952.236	920.494
62.0	1962.852	1889.167	1787.142	1619.934	1411.349	1172.724	1008.349	931.831	901.223
62.5	1907.872	1839.288	1739.530	1577.990	1376.207	1144.950	985.110	911.426	881.952
63.0	1854.025	1789.409	1693.052	1536.614	1341.065	1117.176	961.305	891.587	863.247
63.5	1799.612	1739.530	1645.440	1495.237	1305.356	1089.403	938.065	871.749	843.975
64.0	1748.599	1689.651	1598.962	1454.993	1270.781	1061.629	914.826	852.478	825.838
64.5	1697.020	1640.906	1552.484	1414.183	1236.773	1034.423	892.154	833.206	807.133
65.0	1648.275	1593.294	1507.706	1374.507	1203.898	1006.649	870.049	813.935	788.995
65.5	1599.529	1546.816	1463.495	1335.397	1171.590	980.576	849.077	795.797	771.424
66.0	1552.484	1502.038	1420.418	1296.854	1139.849	955.070	828.105	777.659	753.286
66.5	1505.439	1457.261	1377.908	1260.012	1108.108	930.130	807.133	759.521	736.849
67.0	1460.661	1412.483	1335.964	1223.169	1076.366	905.757	786.728	742.517	719.845
67.5	1417.584	1368.272	1294.587	1186.327	1045.192	881.952	766.323	724.946	703.974
68.0	1375.640	1324.628	1253.777	1150.051	1013.451	857.579	746.485	707.942	688.104
68.5	1334.263	1282.684	1212.967	1114.342	982.843	833.773	726.646	690.938	671.666
69.0	1294.020	1241.874	1173.290	1079.200	952.802	810.534	707.375	673.933	655.796
69.5	1254.911	1201.631	1134.747	1044.625	923.895	786.728	688.104	657.496	639.925
70.0	1215.801	1161.954	1097.905	1010.617	894.988	764.056	669.399	641.059	624.621
70.5	1177.825	1124.545	1061.063	977.175	867.215	741.950	651.261	625.188	609.317
71.0	1139.849	1087.136	1025.354	944.867	838.874	720.412	633.690	609.317	594.580
71.5	1101.873	1050.293	989.645	913.126	811.101	699.440	616.119	594.014	579.843
72.0	1065.030	1012.884	954.503	881.385	783.894	678.468	597.981	578.143	565.447
72.5	1028.188	975.475	919.928	849.644	756.687	657.496	580.410	562.839	551.050
73.0	992.479	940.333	885.919	819.036	730.614	636.524	563.406	547.309	536.539
73.5	957.337	906.324	853.044	788.995	704.541	615.552	546.855	531.948	521.746
74.0	922.762	872.316	820.736	759.521	680.168	594.580	530.815	516.815	506.895
74.5	888.186	840.008	790.129	730.614	655.796	574.742	515.057	501.851	492.385
75.0	854.745	807.700	760.088	702.274	633.123	555.074	499.470	486.944	478.102
75.5	821.870	776.525	730.614	675.067	609.884	536.256	483.713	472.150	464.272
76.0	788.995	745.918	700.573	648.427	586.645	517.551	467.842	457.640	450.555
76.5	757.254	714.744	671.099	622.354	563.633	498.677	452.029	443.130	436.498
77.0	725.513	683.569	641.625	595.714	540.677	480.085	436.328	428.676	422.555
77.5	694.338	653.528	613.852	570.208	518.062	461.041	421.024	414.279	408.328
78.0	664.865	624.621	586.645	544.815	496.466	442.053	406.060	399.315	394.101
78.5	635.957	597.414	560.289	519.535	475.551	423.405	391.097	384.749	379.761
79.0	608.184	570.775	533.819	495.163	455.089	405.210	375.906	370.748	365.137
79.5	579.843	543.511	507.689	471.640	434.798	387.526	360.149	356.805	351.534
80.0	552.127	516.191	481.729	448.174	414.109	370.125	344.449	342.578	337.930
80.5	525.033	489.268	455.769	424.992	392.911	352.951	328.861	328.295	324.384
81.0	497.827	462.798	429.640	401.753	371.485	335.720	313.161	313.841	310.440
81.5	470.166	436.385	403.510	378.004	350.230	318.149	296.837	299.671	296.213
82.0	442.563	410.028	377.663	354.764	329.542	300.068	280.626	285.331	281.816
82.5	415.243	383.728	352.667	331.695	309.307	282.043	264.415	270.877	267.420

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.IES

## CANDELA TABULATION - (Cont.)

83.0	387.923	358.392	328.521	308.683	289.355	264.019	249.055	256.140	253.079
83.5	360.092	333.282	304.545	286.181	269.120	246.391	233.638	241.743	238.229
84.0	331.355	307.946	279.946	263.962	249.282	229.217	217.881	227.290	223.549
84.5	301.825	281.646	254.610	241.743	228.763	212.099	201.273	212.666	209.265
85.0	272.521	254.100	229.330	219.864	208.188	194.925	184.439	197.986	194.415
85.5	242.367	225.873	204.447	197.589	187.273	177.297	167.605	183.079	179.111
86.0	212.609	197.872	179.961	175.087	166.188	159.273	151.394	167.605	163.354
86.5	182.569	170.212	155.872	152.188	145.103	141.022	135.410	151.848	146.236
87.0	153.208	142.722	131.386	128.892	124.131	122.487	119.540	136.147	129.119
87.5	124.754	115.685	106.050	105.426	103.045	103.669	103.499	119.823	112.454
88.0	98.624	90.632	82.584	82.017	82.244	84.908	87.572	103.386	96.017
88.5	74.819	67.790	61.215	58.608	61.329	66.543	72.041	86.608	79.296
89.0	52.940	47.555	41.660	38.146	40.470	48.802	56.624	70.624	63.709
89.5	34.065	29.361	24.769	21.312	21.255	32.365	41.377	55.604	49.085
90.0	19.215	16.097	12.130	8.275	7.028	18.308	27.660	41.320	36.106
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.IES

## CANDELA TABULATION - (Cont.)

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

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.IES**

**CANDELA TABULATION - (Cont.)**

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.IES****CANDELA TABULATION - (Cont.)**

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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1782.78	N.A.	14.90
0-30	3730.09	N.A.	31.10
0-40	5975.26	N.A.	49.90
0-60	9874.89	N.A.	82.40
0-80	11749.96	N.A.	98.00
0-90	11983.67	N.A.	100.00
10-90	11518.85	N.A.	96.10
20-40	4192.48	N.A.	35.00
20-50	6347.97	N.A.	53.00
40-70	5094.03	N.A.	42.50
60-80	1875.07	N.A.	15.60
70-80	680.68	N.A.	5.70
80-90	233.70	N.A.	2.00
90-110	0.54	N.A.	0.00
90-120	0.54	N.A.	0.00
90-130	0.54	N.A.	0.00
90-150	0.54	N.A.	0.00
90-180	0.54	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11984.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	464.81
10-20	1317.97
20-30	1947.31
30-40	2245.17
40-50	2155.49
50-60	1744.14
60-70	1194.4
70-80	680.68
80-90	233.70
90-100	0.54
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-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.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	77	83	79	75	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	28	27

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-940-SYM-ASY-DIM-UNV\_WHITE CCT ONLY.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	20.0	21.6	20.3	21.9	22.2	17.8	19.4	18.2	19.7	20.0
	3H	21.5	22.9	21.8	23.2	23.6	19.4	20.8	19.8	21.1	21.5
	4H	22.0	23.4	22.4	23.7	24.1	20.0	21.3	20.4	21.6	22.0
	6H	22.5	23.7	22.9	24.1	24.5	20.5	21.7	20.9	22.1	22.4
	8H	22.7	23.9	23.1	24.3	24.7	20.6	21.8	21.1	22.2	22.6
	12H	22.8	24.0	23.3	24.3	24.8	20.8	21.9	21.2	22.3	22.7

### UGR Viewed Endwise

4H	2H	20.4	21.7	20.8	22.1	22.5	18.4	19.7	18.8	20.1	20.5
	3H	22.1	23.2	22.5	23.6	24.0	20.2	21.3	20.6	21.7	22.1
	4H	22.8	23.8	23.2	24.2	24.7	20.9	21.9	21.3	22.3	22.7
	6H	23.4	24.3	23.9	24.7	25.2	21.5	22.4	22.0	22.8	23.3
	8H	23.7	24.5	24.1	24.9	25.4	21.7	22.6	22.2	23.0	23.5
	12H	23.9	24.6	24.3	25.1	25.6	22.0	22.7	22.4	23.2	23.6

8H	4H	23.0	23.8	23.5	24.3	24.8	21.2	22.0	21.6	22.4	22.9
	6H	23.8	24.5	24.3	24.9	25.4	21.9	22.6	22.4	23.1	23.6
	8H	24.1	24.7	24.6	25.2	25.7	22.3	22.9	22.8	23.4	23.9
	12H	24.4	24.9	24.9	25.4	26.0	22.6	23.1	23.1	23.6	24.2

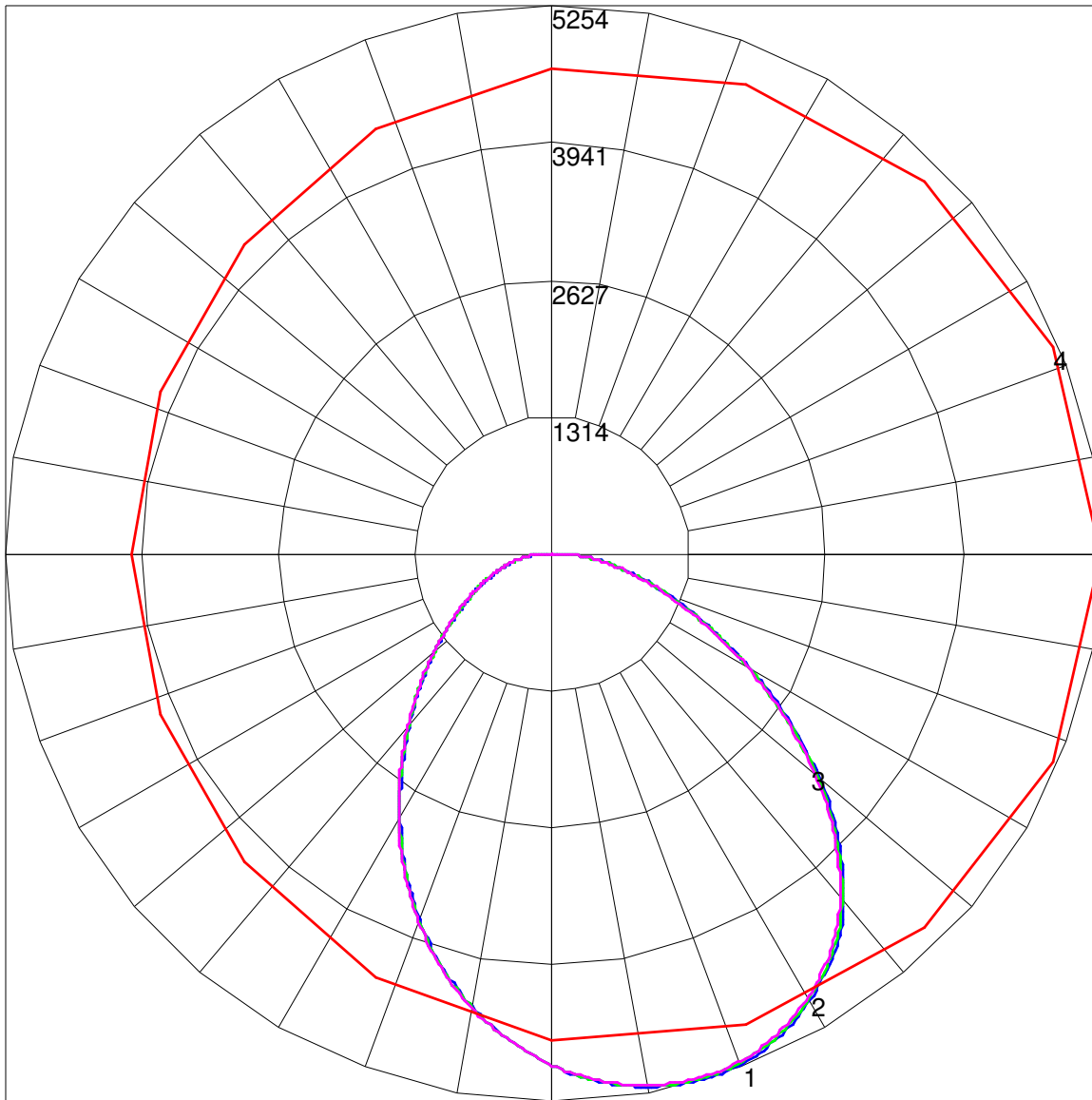
12H	4H	23.0	23.8	23.5	24.3	24.7	21.2	21.9	21.7	22.4	22.9
	6H	23.8	24.4	24.3	24.9	25.4	22.0	22.6	22.5	23.1	23.6
	8H	24.2	24.7	24.7	25.2	25.8	22.4	23.0	22.9	23.5	24.0

Maximum UGR = 26.0

# IES INDOOR REPORT

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## POLAR GRAPH



Maximum Candela = 5254.3 Located At Horizontal Angle = 0, Vertical Angle = 16

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (5 - 185)

# 3 - Vertical Plane Through Horizontal Angles (10 - 190)

# 4 - Horizontal Cone Through Vertical Angle (16) (Through Max. Cd.)