



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L32-GRN-L147-950-SYM-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 12186363.03
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 03-16-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MDSG-24-L32/GRN/L147/950-SYM-DIM-UNV
 [LUMINAIRE] White formed steel housing, frosted patterned plastic 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	15383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	176
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)	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	8970	8775	8691
55	7545	7302	7193
65	6244	5991	6038
75	5477	5395	5833
85	5703	5902	6903

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	6592.783	6592.783	6592.783	6592.783	6592.783
0.5	6654.279	6623.177	6572.991	6565.922	6563.802
1.0	6652.865	6622.470	6571.577	6564.509	6562.388
1.5	6651.451	6620.350	6569.457	6562.388	6560.974
2.0	6648.624	6617.522	6567.336	6559.561	6558.147
2.5	6645.089	6613.988	6563.802	6556.026	6554.613
3.0	6640.142	6609.040	6558.854	6551.785	6550.372
3.5	6635.194	6604.092	6553.906	6546.837	6545.424
4.0	6628.125	6597.731	6547.544	6541.183	6539.062
4.5	6621.763	6590.662	6541.183	6534.114	6533.407
5.0	6613.988	6582.887	6534.114	6527.753	6526.339
5.5	6605.506	6574.405	6526.339	6519.270	6518.563
6.0	6597.024	6565.922	6517.150	6510.788	6510.081
6.5	6587.128	6555.320	6507.254	6500.892	6500.892
7.0	6575.818	6544.717	6497.358	6490.996	6490.996
7.5	6563.802	6532.700	6485.342	6480.394	6478.980
8.0	6551.079	6519.977	6474.032	6467.670	6467.670
8.5	6536.942	6507.254	6460.602	6455.654	6453.533
9.0	6522.098	6493.117	6447.879	6441.517	6440.810
9.5	6507.254	6478.273	6433.742	6427.380	6425.966
10.0	6490.996	6462.016	6418.191	6412.536	6411.829
10.5	6474.032	6445.758	6401.933	6396.985	6395.572
11.0	6456.361	6428.087	6384.969	6380.021	6378.607
11.5	6437.276	6409.709	6367.298	6362.350	6360.936
12.0	6418.191	6390.624	6348.213	6343.972	6342.558
12.5	6397.692	6370.832	6329.128	6324.180	6323.473
13.0	6377.194	6349.627	6307.922	6304.388	6303.681
13.5	6354.574	6327.714	6286.717	6283.890	6284.596
14.0	6331.955	6305.095	6264.805	6262.684	6261.977
14.5	6308.629	6281.769	6241.479	6239.358	6240.065
15.0	6283.890	6257.736	6217.446	6216.739	6217.446
15.5	6259.150	6232.290	6191.999	6191.292	6192.706
16.0	6232.996	6206.843	6165.846	6166.553	6167.966
16.5	6206.843	6179.983	6140.399	6140.399	6142.520
17.0	6179.983	6152.416	6112.832	6113.539	6115.659
17.5	6153.122	6123.435	6084.558	6085.972	6088.092
18.0	6124.142	6094.454	6055.577	6057.698	6060.525
18.5	6094.454	6065.473	6026.596	6028.717	6030.838
19.0	6064.766	6034.372	5996.202	5998.322	6001.857
19.5	6034.372	6004.684	5965.807	5966.514	5970.048
20.0	6002.564	5972.876	5933.999	5934.706	5938.947
20.5	5969.342	5940.361	5900.777	5901.484	5906.432
21.0	5935.413	5907.139	5867.555	5868.262	5871.796
21.5	5901.484	5873.210	5832.920	5832.920	5837.161
22.0	5866.849	5839.281	5798.991	5798.284	5801.818
22.5	5831.506	5803.939	5762.942	5762.235	5766.476
23.0	5794.750	5767.183	5726.186	5725.479	5729.013
23.5	5757.287	5730.427	5689.429	5687.309	5692.257
24.0	5719.117	5692.964	5651.966	5649.139	5653.380
24.5	5680.240	5654.794	5613.796	5610.969	5615.917
25.0	5640.657	5616.624	5577.040	5573.506	5575.627
25.5	5602.487	5578.454	5537.457	5533.923	5536.750
26.0	5563.610	5538.870	5496.460	5492.925	5495.753
26.5	5524.027	5497.873	5455.462	5451.221	5454.755

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27.0	5482.323	5456.169	5413.758	5409.517	5413.051
27.5	5440.618	5413.051	5370.640	5366.399	5369.934
28.0	5397.501	5369.934	5327.523	5322.575	5326.109
28.5	5353.676	5326.109	5283.698	5278.043	5281.577
29.0	5309.144	5281.577	5238.460	5233.512	5235.632
29.5	5263.906	5237.046	5193.221	5187.566	5190.394
30.0	5218.668	5191.101	5147.276	5140.914	5144.449
30.5	5172.723	5145.155	5100.624	5094.262	5097.797
31.0	5126.071	5098.503	5053.265	5046.903	5050.438
31.5	5078.005	5051.145	5005.906	4998.838	5003.079
32.0	5030.646	5003.786	4957.840	4950.065	4953.599
32.5	4981.873	4955.013	4909.068	4899.879	4904.120
33.0	4933.101	4906.240	4859.588	4850.399	4853.227
33.5	4882.914	4856.761	4810.109	4799.506	4802.334
34.0	4833.435	4806.575	4759.216	4748.613	4752.147
34.5	4782.542	4755.682	4708.323	4696.306	4699.134
35.0	4731.649	4704.082	4656.723	4643.293	4646.827
35.5	4680.756	4651.775	4604.416	4590.986	4594.520
36.0	4628.449	4598.761	4552.109	4537.972	4540.093
36.5	4575.435	4545.747	4499.095	4483.545	4486.372
37.0	4521.008	4492.027	4444.668	4429.117	4430.531
37.5	4466.580	4437.599	4390.240	4373.983	4373.983
38.0	4411.446	4383.172	4335.106	4318.142	4318.142
38.5	4356.312	4327.331	4279.265	4262.301	4261.594
39.0	4300.471	4271.490	4223.424	4206.460	4204.339
39.5	4244.630	4214.942	4166.876	4149.205	4147.084
40.0	4188.082	4157.687	4110.328	4091.950	4089.830
40.5	4130.120	4100.432	4053.073	4033.988	4031.161
41.0	4072.865	4043.884	3995.819	3975.320	3971.786
41.5	4012.783	3985.923	3937.857	3916.652	3912.410
42.0	3954.821	3928.668	3879.189	3857.276	3853.035
42.5	3896.860	3870.706	3820.520	3797.901	3792.953
43.0	3838.191	3812.038	3761.852	3737.819	3733.578
43.5	3780.230	3753.369	3703.183	3677.030	3674.202
44.0	3722.268	3694.701	3643.808	3616.947	3613.413
44.5	3663.599	3635.326	3585.139	3556.158	3553.331
45.0	3605.638	3577.364	3527.178	3496.076	3493.249
45.5	3546.969	3518.695	3467.802	3435.994	3432.460
46.0	3489.715	3460.027	3409.134	3375.912	3372.378
46.5	3430.339	3401.358	3349.758	3315.830	3311.589
47.0	3372.378	3341.983	3289.676	3255.747	3250.800
47.5	3313.709	3283.315	3230.301	3195.665	3192.131
48.0	3255.747	3223.939	3171.632	3136.290	3132.756
48.5	3197.079	3164.564	3112.257	3077.621	3074.087
49.0	3139.117	3106.602	3054.295	3019.660	3015.419
49.5	3079.742	3048.641	2996.334	2962.405	2956.750
50.0	3021.074	2990.679	2938.372	2905.150	2898.789
50.5	2962.405	2933.424	2880.411	2847.895	2840.827
51.0	2904.443	2876.169	2823.156	2790.641	2783.572
51.5	2847.189	2818.208	2765.194	2734.093	2726.317
52.0	2790.641	2760.953	2708.646	2678.252	2670.476
52.5	2733.386	2703.698	2652.805	2622.411	2615.342
53.0	2677.545	2648.564	2598.378	2567.276	2560.208
53.5	2622.411	2594.137	2542.537	2512.849	2505.780
54.0	2566.570	2539.709	2488.816	2458.422	2451.353
54.5	2513.556	2485.282	2434.389	2404.701	2397.633

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CANDELA TABULATION - (Cont.)

55.0	2459.835	2430.854	2380.668	2350.274	2345.326
55.5	2406.822	2377.134	2327.654	2297.967	2293.019
56.0	2354.515	2324.120	2274.641	2244.953	2240.712
56.5	2302.208	2271.107	2223.041	2194.060	2189.819
57.0	2250.608	2218.800	2171.441	2143.167	2140.339
57.5	2200.422	2167.907	2121.255	2093.687	2091.567
58.0	2150.235	2117.720	2071.775	2044.915	2043.501
58.5	2100.049	2067.534	2021.589	1996.849	1996.142
59.0	2050.570	2018.055	1972.109	1949.490	1949.490
59.5	2000.383	1968.575	1923.337	1902.838	1902.838
60.0	1951.611	1919.802	1874.564	1856.893	1858.307
60.5	1903.545	1871.737	1827.912	1812.361	1813.775
61.0	1856.186	1824.378	1781.260	1768.537	1769.950
61.5	1809.534	1777.726	1736.022	1725.419	1727.539
62.0	1762.882	1732.487	1691.490	1683.715	1686.542
62.5	1716.937	1687.956	1647.666	1642.718	1645.545
63.0	1671.698	1644.131	1604.548	1602.427	1604.548
63.5	1627.874	1599.600	1561.430	1562.137	1564.964
64.0	1584.049	1556.482	1519.019	1522.553	1526.087
64.5	1542.345	1514.071	1478.022	1484.383	1487.918
65.0	1499.934	1472.367	1439.145	1446.213	1450.455
65.5	1458.937	1432.077	1400.268	1409.457	1415.112
66.0	1419.353	1392.493	1362.805	1374.115	1379.770
66.5	1379.770	1354.323	1326.049	1338.772	1346.548
67.0	1341.600	1316.153	1289.293	1304.137	1313.326
67.5	1303.430	1278.690	1252.537	1269.501	1279.397
68.0	1266.674	1241.934	1217.901	1236.279	1246.882
68.5	1229.918	1205.885	1182.559	1203.764	1215.781
69.0	1193.868	1170.542	1148.630	1171.249	1185.386
69.5	1159.233	1135.907	1116.115	1140.148	1156.405
70.0	1123.890	1101.978	1084.307	1109.753	1127.425
70.5	1089.961	1068.756	1052.498	1080.772	1098.444
71.0	1056.740	1036.948	1022.104	1051.085	1070.170
71.5	1022.811	1005.140	991.003	1022.104	1043.309
72.0	989.589	973.331	960.608	993.830	1015.742
72.5	957.781	942.230	931.627	965.556	988.175
73.0	925.972	911.129	902.646	937.989	961.315
73.5	894.871	880.734	874.372	910.422	934.455
74.0	865.183	851.046	846.805	884.268	909.008
74.5	834.789	822.066	819.945	858.115	884.268
75.0	805.808	793.792	793.792	832.668	858.115
75.5	776.827	766.225	767.638	807.929	832.668
76.0	749.260	738.657	741.485	782.482	807.222
76.5	721.693	711.090	715.331	757.036	782.482
77.0	695.328	684.018	689.885	731.589	757.742
77.5	668.609	657.440	664.721	706.849	732.296
78.0	641.890	631.075	640.123	682.604	707.556
78.5	615.666	605.134	615.948	658.783	683.382
79.0	590.290	579.616	591.703	634.680	659.420
79.5	565.479	554.523	566.752	610.859	634.751
80.0	540.740	529.783	542.436	587.180	609.657
80.5	515.152	504.973	517.767	563.642	585.342
81.0	489.705	480.092	493.027	539.821	560.319
81.5	463.976	454.716	468.288	515.434	534.731
82.0	438.671	429.411	443.477	491.119	508.861
82.5	413.577	404.247	418.737	467.298	482.637

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83.0	388.555	379.366	394.068	443.477	456.059
83.5	362.755	354.414	369.187	419.091	428.775
84.0	336.460	329.533	343.882	393.786	400.925
84.5	309.741	304.087	318.153	367.491	372.015
85.0	282.528	278.216	292.424	340.207	341.974
85.5	255.314	251.921	266.270	312.781	311.084
86.0	227.181	225.414	240.399	283.659	279.276
86.5	197.564	198.271	214.034	253.123	247.397
87.0	167.735	170.775	186.325	222.021	215.942
87.5	137.765	142.571	158.051	190.284	184.205
88.0	107.865	114.792	130.202	158.476	153.033
88.5	78.602	87.437	102.493	127.162	122.780
89.0	50.681	61.425	76.340	97.333	93.445
89.5	25.517	37.604	52.731	69.907	67.080
90.0	7.846	18.944	33.010	45.804	43.825
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-24-L32-GRN-L147-950-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-24-L32-GRN-L147-950-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-24-L32-GRN-L147-950-SYM-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2378.05	N.A.	15.50
0-30	4950.54	N.A.	32.20
0-40	7866.82	N.A.	51.10
0-60	12736.64	N.A.	82.80
0-80	15057.02	N.A.	97.90
0-90	15382.61	N.A.	100.00
10-90	14760.75	N.A.	96.00
20-40	5488.77	N.A.	35.70
20-50	8214.73	N.A.	53.40
40-70	6325.56	N.A.	41.10
60-80	2320.37	N.A.	15.10
70-80	864.64	N.A.	5.60
80-90	325.60	N.A.	2.10
90-110	0.85	N.A.	0.00
90-120	0.85	N.A.	0.00
90-130	0.85	N.A.	0.00
90-150	0.85	N.A.	0.00
90-180	0.85	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	15383.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	621.87
10-20	1756.18
20-30	2572.49
30-40	2916.28
40-50	2725.95
50-60	2143.87
60-70	1455.74
70-80	864.64
80-90	325.60
90-100	0.85
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-L147-950-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-24-L32-GRN-L147-950-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

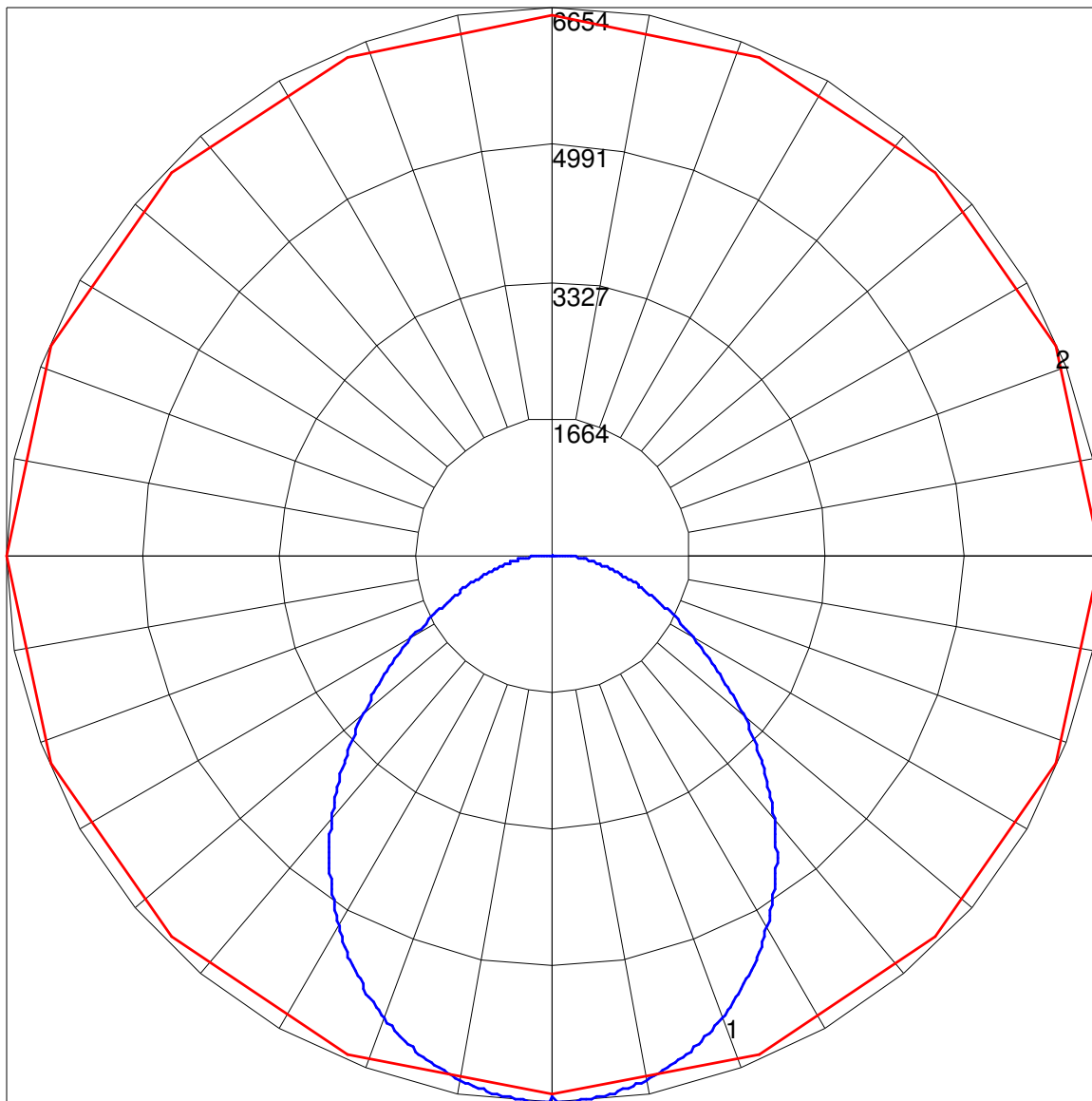
X=2H	Y=2H	18.5	20.1	18.9	20.4	20.7	18.3	19.8	18.6	20.1	20.4
	3H	20.1	21.5	20.4	21.8	22.1	19.9	21.3	20.3	21.6	22.0
	4H	20.7	22.0	21.1	22.3	22.7	20.6	21.9	21.0	22.3	22.6
	6H	21.2	22.4	21.6	22.8	23.2	21.3	22.5	21.7	22.8	23.2
	8H	21.4	22.6	21.8	23.0	23.4	21.5	22.7	22.0	23.1	23.5
	12H	21.6	22.7	22.0	23.1	23.5	21.8	22.9	22.2	23.3	23.7

UGR Viewed Endwise

4H	2H	19.0	20.3	19.4	20.7	21.0	18.8	20.1	19.2	20.5	20.8
	3H	20.8	21.9	21.2	22.3	22.7	20.6	21.7	21.0	22.1	22.5
	4H	21.5	22.5	22.0	22.9	23.4	21.5	22.5	21.9	22.9	23.4
	6H	22.2	23.1	22.7	23.5	24.0	22.3	23.2	22.8	23.6	24.1
	8H	22.5	23.3	23.0	23.8	24.2	22.7	23.5	23.2	24.0	24.4
	12H	22.7	23.5	23.2	23.9	24.4	23.0	23.8	23.5	24.2	24.7
8H	4H	21.8	22.6	22.3	23.1	23.6	21.8	22.6	22.3	23.1	23.5
	6H	22.7	23.3	23.2	23.8	24.3	22.8	23.5	23.3	24.0	24.4
	8H	23.0	23.6	23.5	24.2	24.6	23.3	23.9	23.8	24.4	24.9
	12H	23.4	23.9	23.9	24.4	25.0	23.8	24.3	24.3	24.8	25.3
12H	4H	21.9	22.6	22.4	23.1	23.6	21.9	22.6	22.3	23.1	23.5
	6H	22.8	23.4	23.3	23.8	24.4	22.9	23.5	23.4	24.0	24.5
	8H	23.2	23.7	23.7	24.2	24.8	23.4	24.0	23.9	24.5	25.0

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 6654.279 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.)