



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L116-940-SYM-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 12186363.03
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 09-06-2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MDSG-24-L116-940-SYM-DIM-UNV
[LUMINAIRE] White formed steel housing, frosted patterned plastic lens
[LAMP] LED
[LAMPCAT] HLM 90 CRI 4000K CCT
[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	9650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	94
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	5627	5505	5452
55	4733	4580	4512
65	3917	3758	3788
75	3436	3385	3659
85	3577	3703	4330

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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	4135.714	4135.714	4135.714	4135.714	4135.714
0.5	4174.291	4154.781	4123.298	4118.864	4117.534
1.0	4173.404	4154.337	4122.412	4117.978	4116.647
1.5	4172.517	4153.007	4121.081	4116.647	4115.760
2.0	4170.744	4151.234	4119.751	4114.874	4113.987
2.5	4168.527	4149.016	4117.534	4112.657	4111.770
3.0	4165.423	4145.913	4114.430	4109.996	4109.109
3.5	4162.319	4142.809	4111.326	4106.892	4106.005
4.0	4157.885	4138.818	4107.336	4103.345	4102.015
4.5	4153.894	4134.384	4103.345	4098.911	4098.467
5.0	4149.016	4129.506	4098.911	4094.920	4094.033
5.5	4143.695	4124.185	4094.033	4089.599	4089.156
6.0	4138.375	4118.864	4088.269	4084.278	4083.835
6.5	4132.167	4112.213	4082.061	4078.070	4078.070
7.0	4125.072	4105.562	4075.853	4071.863	4071.863
7.5	4117.534	4098.024	4068.315	4065.211	4064.325
8.0	4109.553	4090.043	4061.221	4057.230	4057.230
8.5	4100.684	4082.061	4052.796	4049.692	4048.362
9.0	4091.373	4073.193	4044.814	4040.824	4040.380
9.5	4082.061	4063.881	4035.946	4031.955	4031.069
10.0	4071.863	4053.683	4026.191	4022.644	4022.200
10.5	4061.221	4043.484	4015.993	4012.889	4012.002
11.0	4050.135	4032.399	4005.351	4002.247	4001.360
11.5	4038.163	4020.870	3994.265	3991.161	3990.275
12.0	4026.191	4008.898	3982.293	3979.633	3978.746
12.5	4013.332	3996.482	3970.321	3967.217	3966.774
13.0	4000.473	3983.180	3957.019	3954.802	3954.358
13.5	3986.284	3969.434	3943.716	3941.943	3942.386
14.0	3972.095	3955.245	3929.970	3928.640	3928.197
14.5	3957.462	3940.612	3915.338	3914.008	3914.451
15.0	3941.943	3925.536	3900.262	3899.818	3900.262
15.5	3926.423	3909.573	3884.299	3883.855	3884.742
16.0	3910.017	3893.611	3867.893	3868.336	3869.223
16.5	3893.611	3876.761	3851.930	3851.930	3853.260
17.0	3876.761	3859.468	3834.637	3835.080	3836.410
17.5	3859.911	3841.288	3816.900	3817.787	3819.117
18.0	3841.731	3823.108	3798.720	3800.050	3801.824
18.5	3823.108	3804.928	3780.540	3781.870	3783.201
19.0	3804.484	3785.418	3761.473	3762.804	3765.021
19.5	3785.418	3766.794	3742.407	3742.850	3745.067
20.0	3765.464	3746.841	3722.453	3722.896	3725.557
20.5	3744.624	3726.444	3701.613	3702.056	3705.160
21.0	3723.340	3705.603	3680.772	3681.216	3683.433
21.5	3702.056	3684.320	3659.045	3659.045	3661.705
22.0	3680.329	3663.036	3637.761	3637.318	3639.535
22.5	3658.158	3640.865	3615.147	3614.704	3617.364
23.0	3635.101	3617.808	3592.090	3591.646	3593.863
23.5	3611.600	3594.750	3569.032	3567.702	3570.806
24.0	3587.655	3571.249	3545.531	3543.758	3546.418
24.5	3563.268	3547.305	3521.587	3519.813	3522.917
25.0	3538.437	3523.361	3498.529	3496.312	3497.643
25.5	3514.492	3499.416	3473.698	3471.481	3473.255
26.0	3490.105	3474.585	3447.980	3445.763	3447.537
26.5	3465.273	3448.867	3422.262	3419.602	3421.819

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CANDELA TABULATION - (Cont.)

27.0	3439.112	3422.706	3396.101	3393.441	3395.658
27.5	3412.951	3395.658	3369.053	3366.392	3368.609
28.0	3385.902	3368.609	3342.005	3338.901	3341.118
28.5	3358.411	3341.118	3314.513	3310.966	3313.183
29.0	3330.476	3313.183	3286.135	3283.031	3284.361
29.5	3302.097	3285.248	3257.756	3254.209	3255.982
30.0	3273.719	3256.426	3228.934	3224.944	3227.161
30.5	3244.897	3227.604	3199.669	3195.678	3197.895
31.0	3215.632	3198.339	3169.960	3165.970	3168.187
31.5	3185.480	3168.630	3140.252	3135.818	3138.478
32.0	3155.771	3138.921	3110.100	3105.222	3107.439
32.5	3125.176	3108.326	3079.504	3073.740	3076.400
33.0	3094.580	3077.730	3048.465	3042.701	3044.474
33.5	3063.098	3046.691	3017.426	3010.775	3012.549
34.0	3032.059	3015.209	2985.500	2978.849	2981.066
34.5	3000.133	2983.283	2953.575	2946.037	2947.810
35.0	2968.207	2950.914	2921.206	2912.781	2914.998
35.5	2936.282	2918.102	2888.393	2879.968	2882.185
36.0	2903.469	2884.846	2855.580	2846.712	2848.042
36.5	2870.213	2851.590	2822.324	2812.569	2814.343
37.0	2836.070	2817.890	2788.182	2778.427	2779.313
37.5	2801.927	2783.747	2754.039	2743.840	2743.840
38.0	2767.341	2749.605	2719.453	2708.811	2708.811
38.5	2732.755	2714.575	2684.423	2673.781	2673.338
39.0	2697.725	2679.545	2649.393	2638.751	2637.421
39.5	2662.696	2644.072	2613.920	2602.835	2601.505
40.0	2627.223	2608.156	2578.447	2566.918	2565.588
40.5	2590.863	2572.239	2542.531	2530.559	2528.785
41.0	2554.946	2536.766	2506.614	2493.755	2491.538
41.5	2517.256	2500.407	2470.254	2456.952	2454.292
42.0	2480.896	2464.490	2433.451	2419.705	2417.045
42.5	2444.536	2428.130	2396.648	2382.459	2379.355
43.0	2407.733	2391.327	2359.845	2344.769	2342.108
43.5	2371.373	2354.524	2323.041	2306.635	2304.861
44.0	2335.013	2317.720	2285.795	2268.945	2266.728
44.5	2298.210	2280.474	2248.991	2230.811	2229.038
45.0	2261.850	2244.114	2212.631	2193.121	2191.348
45.5	2225.047	2207.310	2175.385	2155.431	2153.214
46.0	2189.131	2170.507	2138.581	2117.741	2115.524
46.5	2151.884	2133.704	2101.335	2080.051	2077.390
47.0	2115.524	2096.457	2063.645	2042.361	2039.257
47.5	2078.721	2059.654	2026.398	2004.671	2002.454
48.0	2042.361	2022.407	1989.595	1967.424	1965.207
48.5	2005.557	1985.160	1952.348	1930.621	1928.404
49.0	1969.198	1948.801	1915.988	1894.261	1891.600
49.5	1931.951	1912.441	1879.628	1858.344	1854.797
50.0	1895.148	1876.081	1843.268	1822.428	1818.437
50.5	1858.344	1840.164	1806.908	1786.511	1782.077
51.0	1821.984	1804.248	1770.992	1750.595	1746.161
51.5	1786.068	1767.888	1734.632	1715.122	1710.244
52.0	1750.595	1731.972	1699.159	1680.092	1675.215
52.5	1714.678	1696.055	1664.129	1645.063	1640.629
53.0	1679.649	1661.469	1629.987	1610.476	1606.042
53.5	1645.063	1627.326	1594.957	1576.334	1571.899
54.0	1610.033	1593.183	1561.258	1542.191	1537.757
54.5	1576.777	1559.040	1527.115	1508.491	1504.057

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55.0	1543.078	1524.898	1493.415	1474.349	1471.245
55.5	1509.822	1491.198	1460.159	1441.536	1438.432
56.0	1477.009	1457.942	1426.903	1408.280	1405.620
56.5	1444.196	1424.686	1394.534	1376.354	1373.694
57.0	1411.827	1391.874	1362.165	1344.429	1342.655
57.5	1380.345	1359.948	1330.683	1313.390	1312.059
58.0	1348.863	1328.466	1299.644	1282.794	1281.907
58.5	1317.380	1296.983	1268.161	1252.642	1252.199
59.0	1286.341	1265.944	1237.123	1222.933	1222.933
59.5	1254.859	1234.906	1206.527	1193.668	1193.668
60.0	1224.264	1204.310	1175.932	1164.846	1165.733
60.5	1194.112	1174.158	1146.666	1136.911	1137.798
61.0	1164.403	1144.449	1117.401	1109.420	1110.306
61.5	1135.138	1115.184	1089.023	1082.371	1083.702
62.0	1105.872	1086.806	1061.088	1056.210	1057.984
62.5	1077.050	1058.871	1033.596	1030.492	1032.266
63.0	1048.672	1031.379	1006.548	1005.218	1006.548
63.5	1021.180	1003.444	979.500	979.943	981.717
64.0	993.689	976.396	952.895	955.112	957.329
64.5	967.527	949.791	927.177	931.168	933.385
65.0	940.923	923.630	902.789	907.223	909.884
65.5	915.205	898.355	878.401	884.166	887.713
66.0	890.374	873.524	854.900	861.995	865.542
66.5	865.542	849.580	831.843	839.824	844.702
67.0	841.598	825.635	808.786	818.097	823.862
67.5	817.654	802.134	785.728	796.370	802.578
68.0	794.596	779.077	764.001	775.530	782.181
68.5	771.539	756.463	741.830	755.133	762.671
69.0	748.925	734.292	720.546	734.736	743.604
69.5	727.197	712.565	700.149	715.225	725.424
70.0	705.027	691.281	680.196	696.159	707.244
70.5	683.743	670.441	660.242	677.979	689.064
71.0	662.903	650.487	641.175	659.355	671.327
71.5	641.619	630.533	621.665	641.175	654.478
72.0	620.778	610.580	602.598	623.439	637.185
72.5	600.825	591.070	584.418	605.702	619.892
73.0	580.871	571.559	566.239	588.409	603.042
73.5	561.361	552.493	548.502	571.116	586.192
74.0	542.738	533.869	531.209	554.710	570.229
74.5	523.671	515.689	514.359	538.304	554.710
75.0	505.491	497.953	497.953	522.341	538.304
75.5	487.311	480.660	481.547	506.821	522.341
76.0	470.018	463.367	465.140	490.858	506.378
76.5	452.725	446.074	448.734	474.895	490.858
77.0	436.185	429.091	432.771	458.933	475.339
77.5	419.424	412.419	416.986	443.413	459.376
78.0	402.663	395.879	401.555	428.204	443.857
78.5	386.213	379.606	386.390	413.261	428.692
79.0	370.294	363.599	371.181	398.141	413.660
79.5	354.730	347.858	355.529	383.198	398.185
80.0	339.211	332.338	340.275	368.343	382.444
80.5	323.159	316.774	324.800	353.578	367.190
81.0	307.197	301.166	309.281	338.635	351.494
81.5	291.056	285.248	293.761	323.337	335.442
82.0	275.182	269.373	278.197	308.083	319.213
82.5	259.441	253.588	262.678	293.140	302.762

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CANDELA TABULATION - (Cont.)

83.0	243.744	237.980	247.203	278.197	286.090
83.5	227.560	222.327	231.595	262.900	268.974
84.0	211.065	206.719	215.720	247.025	251.504
84.5	194.304	190.756	199.580	230.530	233.368
85.0	177.232	174.527	183.440	213.415	214.523
85.5	160.161	158.032	167.034	196.210	195.146
86.0	142.513	141.404	150.805	177.942	175.193
86.5	123.934	124.377	134.265	158.786	155.195
87.0	105.222	107.129	116.884	139.276	135.463
87.5	86.421	89.436	99.147	119.367	115.553
88.0	67.665	72.010	81.677	99.413	95.999
88.5	49.308	54.850	64.295	79.770	77.021
89.0	31.793	38.533	47.889	61.058	58.619
89.5	16.007	23.590	33.079	43.854	42.080
90.0	4.922	11.883	20.707	28.733	27.492
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-L116-940-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-L116-940-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-L116-940-SYM-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1491.77	N.A.	15.50
0-30	3105.52	N.A.	32.20
0-40	4934.93	N.A.	51.10
0-60	7989.82	N.A.	82.80
0-80	9445.41	N.A.	97.90
0-90	9649.66	N.A.	100.00
10-90	9259.56	N.A.	96.00
20-40	3443.16	N.A.	35.70
20-50	5153.17	N.A.	53.40
40-70	3968.08	N.A.	41.10
60-80	1455.59	N.A.	15.10
70-80	542.40	N.A.	5.60
80-90	204.25	N.A.	2.10
90-110	0.53	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	0.53	N.A.	0.00
90-150	0.53	N.A.	0.00
90-180	0.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	9650.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	390.10
10-20	1101.67
20-30	1613.75
30-40	1829.41
40-50	1710.02
50-60	1344.87
60-70	913.20
70-80	542.40
80-90	204.25
90-100	0.53
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-L116-940-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-L116-940-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	16.9	18.5	17.3	18.8	19.1	UGR Viewed Endwise			
	3H	18.5	19.9	18.8	20.2	20.5	16.7	18.2	17.0	18.5
	4H	19.1	20.4	19.5	20.7	21.1	18.3	19.7	18.7	20.0
	6H	19.6	20.8	20.0	21.2	21.6	19.0	20.3	19.4	20.7
	8H	19.8	21.0	20.2	21.4	21.8	19.7	20.9	20.1	21.2
	12H	20.0	21.1	20.4	21.5	21.9	19.9	21.1	20.4	21.5

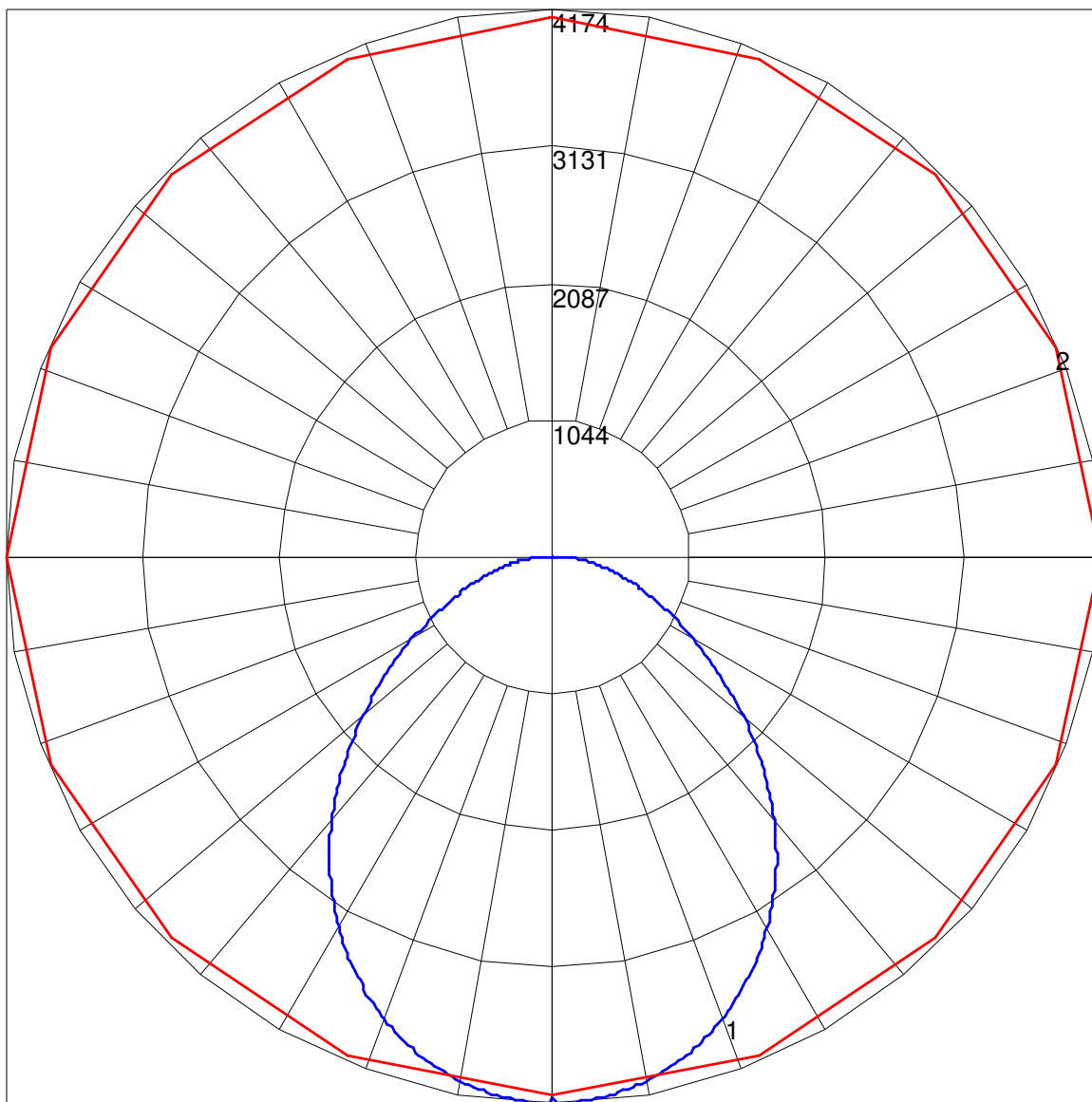
4H	2H	17.4	18.7	17.8	19.1	19.4	20.2	21.0	20.7	21.5
	3H	19.2	20.3	19.6	20.7	21.1	21.2	21.9	21.7	22.4
	4H	19.9	20.9	20.4	21.3	21.8	21.7	22.3	22.2	22.8
	6H	20.6	21.5	21.1	21.9	22.4	22.2	22.7	22.7	23.2
	8H	20.9	21.7	21.4	22.2	22.6	22.2	22.7	22.7	23.2
	12H	21.1	21.9	21.6	22.3	22.8	22.2	22.7	22.7	23.2

8H	4H	20.2	21.0	20.7	21.5	22.0	20.2	21.0	20.7	21.5
	6H	21.1	21.7	21.6	22.2	22.7	21.2	21.9	21.7	22.4
	8H	21.4	22.0	21.9	22.6	23.0	21.7	22.3	22.2	22.8
	12H	21.8	22.3	22.3	22.8	23.4	22.2	22.7	22.7	23.2

12H	4H	20.3	21.0	20.8	21.5	22.0	20.3	21.0	20.7	21.5
	6H	21.2	21.8	21.7	22.2	22.8	21.3	21.9	21.8	22.4
	8H	21.6	22.1	22.1	22.6	23.2	21.8	22.4	22.3	22.9

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 4174.291 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.)