



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from 12186363.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 10-30-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MDSG-24-L220-950-SYM-ASY-EM10W-DIM1-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	1090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	10
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	880	798	634
55	767	696	544
65	624	571	456
75	529	470	392
85	500	421	382

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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	447.935	447.935	447.935	447.935	447.935	447.935	447.935	447.935	447.935
0.5	449.224	448.399	448.038	449.533	451.235	448.141	445.459	445.099	445.614
1.0	450.926	449.998	449.327	450.049	451.184	447.368	444.119	443.397	443.758
1.5	452.679	451.596	450.410	450.616	451.029	446.542	442.726	441.592	441.901
2.0	454.278	453.040	451.493	451.132	450.823	445.666	441.282	439.735	439.942
2.5	455.773	454.433	452.525	451.648	450.565	444.738	439.787	437.930	437.930
3.0	457.372	455.877	453.504	452.009	450.359	443.758	438.188	436.022	435.971
3.5	458.868	457.269	454.433	452.370	449.998	442.778	436.693	434.063	433.908
4.0	460.260	458.507	455.361	452.679	449.637	441.695	435.094	432.051	431.794
4.5	461.652	459.744	456.186	452.989	449.224	440.560	433.392	429.989	429.576
5.0	462.942	460.879	456.960	453.195	448.708	439.477	431.639	427.874	427.410
5.5	464.128	462.013	457.785	453.350	448.193	438.240	429.834	425.863	425.089
6.0	465.314	463.045	458.455	453.453	447.625	437.002	428.029	423.697	422.769
6.5	466.552	464.128	459.022	453.453	446.955	435.661	426.276	421.428	420.397
7.0	467.583	465.056	459.590	453.453	446.285	434.320	424.419	419.159	417.921
7.5	468.563	465.933	460.157	453.401	445.511	432.928	422.459	416.838	415.446
8.0	469.543	466.809	460.621	453.298	444.686	431.484	420.448	414.518	412.919
8.5	470.471	467.634	460.982	453.143	443.861	429.989	418.334	412.145	410.340
9.0	471.296	468.356	461.395	452.989	442.984	428.390	416.271	409.825	408.020
9.5	472.121	469.027	461.704	452.679	441.953	426.740	414.105	407.504	405.338
10.0	472.843	469.646	462.013	452.370	440.973	425.141	411.939	404.977	402.605
10.5	473.513	470.265	462.220	452.009	439.890	423.439	409.722	402.399	399.820
11.0	474.184	470.729	462.323	451.596	438.755	421.531	407.607	399.717	397.035
11.5	474.803	471.244	462.426	451.132	437.621	419.675	405.338	397.035	394.199
12.0	475.370	471.657	462.426	450.565	436.383	417.870	402.914	394.354	391.311
12.5	475.937	472.018	462.426	449.998	435.146	415.962	400.491	391.569	388.372
13.0	476.401	472.327	462.374	449.379	433.753	414.002	398.015	388.681	385.381
13.5	476.814	472.534	462.220	448.657	432.412	411.939	395.488	385.793	382.441
14.0	477.175	472.740	462.065	447.883	431.020	410.083	392.961	382.905	379.399
14.5	477.484	472.843	461.756	447.007	429.524	408.020	390.331	379.914	376.356
15.0	477.742	472.946	461.395	446.078	428.029	406.009	387.650	376.872	373.210
15.5	477.948	472.895	460.982	445.150	426.430	403.843	384.917	373.778	370.116
16.0	478.052	472.843	460.466	444.170	424.832	401.625	382.183	370.632	366.970
16.5	478.052	472.740	459.899	443.087	423.181	399.356	379.399	367.538	363.773
17.0	478.000	472.585	459.332	441.901	421.480	397.035	376.562	364.340	360.524
17.5	477.897	472.276	458.661	440.715	419.623	394.715	373.674	361.195	357.224
18.0	477.691	471.915	457.939	439.477	417.767	392.343	370.786	357.894	353.923
18.5	477.381	471.502	457.166	438.137	415.962	389.919	367.899	354.594	350.571
19.0	476.969	471.038	456.238	436.796	414.002	387.444	364.908	351.293	347.168
19.5	476.504	470.471	455.309	435.455	412.094	384.917	361.916	347.993	343.712
20.0	476.040	469.852	454.278	434.011	410.134	382.338	358.874	344.589	340.257
20.5	475.318	469.182	453.143	432.464	408.123	379.811	355.728	341.237	336.750
21.0	474.700	468.305	452.009	430.917	406.163	377.181	352.634	337.782	333.192
21.5	473.926	467.480	450.823	429.318	403.997	374.551	349.540	334.378	329.634
22.0	473.049	466.552	449.637	427.668	401.780	371.818	346.342	330.820	325.972
22.5	472.121	465.520	448.347	425.915	399.511	369.033	343.145	327.262	322.362
23.0	471.141	464.437	447.007	424.110	397.190	366.248	339.948	323.703	318.701
23.5	470.110	463.354	445.563	422.305	394.870	363.412	336.647	320.145	314.988
24.0	469.027	462.168	444.016	420.448	392.497	360.524	333.398	316.535	311.275
24.5	467.841	460.879	442.520	418.540	390.074	357.585	329.995	312.874	307.562
25.0	466.552	459.538	440.921	416.477	387.547	354.645	326.643	309.212	303.849
25.5	465.262	458.094	439.271	414.518	385.071	351.654	323.239	305.499	300.084
26.0	463.870	456.650	437.569	412.403	382.441	348.612	319.836	301.889	296.371
26.5	462.478	455.103	435.868	410.289	379.914	345.517	316.432	298.176	292.555

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MDSG-24-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

27.0	460.982	453.504	434.063	408.071	377.284	342.423	312.925	294.463	288.791
27.5	459.435	451.803	432.206	405.957	374.551	339.226	309.418	290.699	284.974
28.0	457.888	450.101	430.246	403.688	371.818	336.080	305.963	286.986	281.210
28.5	456.134	448.296	428.235	401.316	369.033	332.883	302.405	283.324	277.445
29.0	454.278	446.439	426.172	398.995	366.197	329.634	298.847	279.663	273.629
29.5	452.318	444.428	424.006	396.520	363.309	326.385	295.237	276.001	269.813
30.0	450.410	442.417	421.892	394.044	360.421	323.136	291.678	272.288	266.048
30.5	448.399	440.303	419.623	391.414	357.430	319.887	288.120	268.575	262.284
31.0	446.336	438.085	417.251	388.784	354.387	316.587	284.613	264.862	258.416
31.5	444.273	435.868	414.827	386.154	351.345	313.183	281.055	261.149	254.600
32.0	442.262	433.495	412.352	383.473	348.251	309.779	277.445	257.436	250.784
32.5	440.045	431.123	409.876	380.688	345.156	306.427	273.784	253.775	247.071
33.0	437.930	428.596	407.298	377.903	342.011	303.024	270.225	250.165	243.306
33.5	435.713	426.018	404.616	375.015	338.762	299.620	266.616	246.503	239.593
34.0	433.392	423.284	401.831	372.024	335.513	296.217	263.057	242.842	235.880
34.5	430.968	420.448	398.944	368.878	332.212	292.710	259.447	239.232	232.219
35.0	428.493	417.560	396.004	365.733	328.860	289.152	255.838	235.622	228.557
35.5	425.966	414.672	393.013	362.484	325.508	285.593	252.228	232.012	224.896
36.0	423.284	411.630	389.919	359.183	322.053	282.035	248.721	228.454	221.337
36.5	420.345	408.639	386.722	355.883	318.649	278.477	245.163	224.844	217.779
37.0	417.354	405.596	383.421	352.531	315.194	274.918	241.604	221.337	214.324
37.5	414.208	402.244	380.069	349.076	311.688	271.360	237.994	217.831	210.869
38.0	410.856	398.840	376.614	345.517	308.129	267.802	234.385	214.427	207.465
38.5	407.659	395.231	373.107	341.907	304.416	264.140	230.826	211.023	204.061
39.0	403.997	391.569	369.497	338.194	300.755	260.530	227.268	207.568	200.658
39.5	400.336	387.908	365.836	334.481	297.093	256.869	223.710	204.165	197.254
40.0	396.520	384.143	362.071	330.768	293.380	253.207	220.203	200.761	193.902
40.5	392.600	380.275	358.255	327.004	289.667	249.546	216.696	197.409	190.550
41.0	388.526	376.304	354.336	323.239	285.954	245.885	213.189	194.109	187.250
41.5	384.349	372.230	350.262	319.371	282.087	242.223	209.683	190.808	184.052
42.0	380.121	368.002	346.188	315.504	278.270	238.562	206.227	187.559	180.855
42.5	375.737	363.721	342.062	311.481	274.403	234.952	202.772	184.310	177.709
43.0	371.457	359.338	337.885	307.407	270.483	231.239	199.369	181.113	174.512
43.5	367.073	354.851	333.656	303.333	266.512	227.526	195.965	177.864	171.366
44.0	362.690	350.365	329.376	299.259	262.593	223.761	192.613	174.667	168.221
44.5	358.255	345.827	325.044	295.134	258.622	219.997	189.209	171.573	165.178
45.0	353.768	341.237	320.609	290.957	254.703	216.335	185.961	168.478	162.135
45.5	349.179	336.596	316.123	286.779	250.835	212.725	182.660	165.436	159.247
46.0	344.537	331.800	311.688	282.602	246.916	209.167	179.411	162.445	156.411
46.5	339.793	326.952	307.046	278.322	242.945	205.505	176.111	159.402	153.523
47.0	334.894	322.002	302.508	273.990	238.974	201.844	172.862	156.514	150.687
47.5	329.995	317.154	297.918	269.607	234.952	198.183	169.664	153.626	147.902
48.0	324.993	312.203	293.277	265.223	230.929	194.521	166.467	150.687	145.117
48.5	319.784	307.253	288.687	260.788	227.062	190.911	163.373	147.850	142.436
49.0	314.679	302.353	284.149	256.508	223.194	187.404	160.279	145.066	139.754
49.5	309.315	297.403	279.405	252.176	219.326	183.949	157.185	142.281	137.124
50.0	303.901	292.400	274.712	247.844	215.510	180.494	154.194	139.651	134.545
50.5	298.486	287.295	269.968	243.512	211.539	177.091	151.203	137.021	132.019
51.0	293.019	282.138	265.172	239.180	207.671	173.687	148.211	134.339	129.492
51.5	287.656	277.033	260.427	234.797	203.701	170.283	145.272	131.761	126.965
52.0	282.241	271.927	255.631	230.465	199.833	166.828	142.333	129.182	124.489
52.5	276.878	266.822	250.887	226.133	196.017	163.476	139.445	126.655	121.962
53.0	271.515	261.768	246.091	221.801	192.304	160.124	136.660	124.128	119.487
53.5	266.048	256.714	241.295	217.521	188.487	156.927	133.875	121.653	117.063
54.0	260.737	251.609	236.499	213.344	184.774	153.729	131.142	119.229	114.743
54.5	255.322	246.400	231.703	209.064	181.010	150.584	128.409	116.857	112.422

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PHOTOMETRIC FILENAME : MDSG-24-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).IES

## CANDELA TABULATION - (Cont.)

55.0	250.062	241.140	226.907	204.835	177.297	147.438	125.727	114.485	110.101
55.5	244.905	235.880	222.111	200.503	173.635	144.292	123.045	112.113	107.884
56.0	239.748	230.723	217.366	196.274	169.922	141.146	120.415	109.792	105.666
56.5	234.591	225.618	212.622	192.046	166.261	138.001	117.837	107.523	103.449
57.0	229.537	220.564	207.981	187.817	162.651	134.958	115.310	105.254	101.283
57.5	224.483	215.562	203.340	183.640	159.144	131.967	112.835	103.036	99.169
58.0	219.275	210.611	198.750	179.514	155.586	129.079	110.359	100.870	97.157
58.5	214.066	205.660	194.109	175.492	152.079	126.243	107.935	98.756	95.146
59.0	208.961	200.658	189.467	171.418	148.572	123.355	105.512	96.642	93.238
59.5	203.855	195.656	184.878	167.344	145.066	120.519	103.088	94.630	91.278
60.0	198.853	190.705	180.288	163.270	141.559	117.579	100.716	92.568	89.370
60.5	193.799	185.857	175.801	159.144	138.155	114.794	98.447	90.556	87.462
61.0	188.694	181.165	171.366	155.122	134.855	112.061	96.126	88.545	85.657
61.5	183.640	176.523	166.983	151.203	131.606	109.328	93.909	86.637	83.749
62.0	178.586	171.882	162.599	147.386	128.409	106.698	91.743	84.781	81.996
62.5	173.584	167.344	158.268	143.570	125.211	104.171	89.628	82.924	80.243
63.0	168.685	162.806	154.039	139.806	122.014	101.644	87.462	81.119	78.541
63.5	163.734	158.268	149.707	136.041	118.765	99.117	85.348	79.314	76.787
64.0	159.093	153.729	145.478	132.380	115.619	96.590	83.234	77.561	75.137
64.5	154.400	149.294	141.250	128.667	112.525	94.115	81.171	75.808	73.435
65.0	149.965	144.963	137.176	125.057	109.534	91.588	79.160	74.054	71.785
65.5	145.530	140.734	133.153	121.498	106.595	89.216	77.251	72.404	70.186
66.0	141.250	136.660	129.234	117.992	103.707	86.895	75.343	70.754	68.536
66.5	136.969	132.586	125.366	114.640	100.819	84.626	73.435	69.103	67.041
67.0	132.895	128.512	121.550	111.288	97.931	82.408	71.579	67.556	65.494
67.5	128.976	124.489	117.785	107.935	95.095	80.243	69.722	65.958	64.050
68.0	125.160	120.519	114.072	104.635	92.207	78.025	67.917	64.411	62.606
68.5	121.395	116.702	110.359	101.386	89.422	75.859	66.112	62.864	61.110
69.0	117.734	112.989	106.749	98.189	86.689	73.745	64.359	61.316	59.666
69.5	114.175	109.328	103.243	95.043	84.059	71.579	62.606	59.821	58.222
70.0	110.617	105.718	99.891	91.949	81.429	69.516	60.904	58.325	56.830
70.5	107.162	102.314	96.539	88.906	78.902	67.505	59.254	56.881	55.437
71.0	103.707	98.911	93.290	85.967	76.323	65.545	57.655	55.437	54.097
71.5	100.252	95.559	90.041	83.079	73.796	63.637	56.056	54.045	52.756
72.0	96.900	92.155	86.843	80.191	71.321	61.729	54.406	52.601	51.446
72.5	93.548	88.752	83.698	77.303	68.846	59.821	52.807	51.209	50.136
73.0	90.299	85.554	80.604	74.518	66.473	57.913	51.260	49.796	48.816
73.5	87.101	82.460	77.612	71.785	64.101	56.005	49.754	48.398	47.470
74.0	83.956	79.366	74.673	69.103	61.884	54.097	48.295	47.021	46.119
74.5	80.810	76.426	71.888	66.473	59.666	52.292	46.861	45.660	44.799
75.0	77.767	73.487	69.155	63.895	57.603	50.502	45.443	44.304	43.499
75.5	74.776	70.651	66.473	61.420	55.489	48.790	44.010	42.958	42.241
76.0	71.785	67.866	63.740	58.996	53.375	47.088	42.566	41.637	40.993
76.5	68.897	65.029	61.059	56.624	51.281	45.371	41.127	40.317	39.714
77.0	66.009	62.193	58.377	54.200	49.192	43.680	39.698	39.002	38.445
77.5	63.173	59.460	55.850	51.879	47.135	41.947	38.306	37.692	37.151
78.0	60.491	56.830	53.375	49.569	45.170	40.219	36.945	36.331	35.856
78.5	57.861	54.355	50.977	47.269	43.267	38.523	35.583	35.006	34.552
79.0	55.334	51.931	48.568	45.051	41.405	36.867	34.201	33.732	33.221
79.5	52.756	49.450	46.191	42.911	39.559	35.258	32.767	32.463	31.984
80.0	50.234	46.965	43.829	40.776	37.677	33.675	31.339	31.169	30.746
80.5	47.769	44.515	41.467	38.667	35.748	32.112	29.921	29.869	29.513
81.0	45.294	42.107	39.090	36.553	33.799	30.545	28.492	28.554	28.245
81.5	42.777	39.704	36.713	34.392	31.865	28.946	27.007	27.265	26.950
82.0	40.266	37.306	34.361	32.278	29.983	27.301	25.532	25.960	25.640
82.5	37.780	34.913	32.087	30.179	28.142	25.661	24.057	24.645	24.331

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## CANDELA TABULATION - (Cont.)

83.0	35.294	32.608	29.890	28.085	26.326	24.021	22.660	23.304	23.026
83.5	32.762	30.323	27.708	26.038	24.485	22.417	21.257	21.994	21.675
84.0	30.148	28.018	25.470	24.016	22.680	20.855	19.823	20.679	20.339
84.5	27.461	25.625	23.165	21.994	20.814	19.297	18.312	19.349	19.040
85.0	24.795	23.119	20.865	20.004	18.942	17.735	16.781	18.013	17.688
85.5	22.051	20.551	18.601	17.977	17.039	16.131	15.249	16.657	16.296
86.0	19.344	18.003	16.373	15.930	15.120	14.491	13.774	15.249	14.862
86.5	16.611	15.486	14.182	13.846	13.202	12.831	12.320	13.816	13.305
87.0	13.939	12.985	11.954	11.727	11.294	11.144	10.876	12.387	11.748
87.5	11.351	10.525	9.649	9.592	9.375	9.432	9.417	10.902	10.231
88.0	8.973	8.246	7.514	7.462	7.483	7.725	7.968	9.406	8.736
88.5	6.807	6.168	5.570	5.332	5.580	6.054	6.555	7.880	7.215
89.0	4.817	4.327	3.790	3.471	3.682	4.440	5.152	6.426	5.796
89.5	3.099	2.671	2.254	1.939	1.934	2.945	3.765	5.059	4.466
90.0	1.748	1.465	1.104	0.753	0.639	1.666	2.517	3.759	3.285
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-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).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-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).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-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).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-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	162.20	N.A.	14.90
0-30	339.37	N.A.	31.10
0-40	543.65	N.A.	49.90
0-60	898.45	N.A.	82.40
0-80	1069.05	N.A.	98.00
0-90	1090.31	N.A.	100.00
10-90	1048.02	N.A.	96.10
20-40	381.44	N.A.	35.00
20-50	577.56	N.A.	53.00
40-70	463.47	N.A.	42.50
60-80	170.60	N.A.	15.60
70-80	61.93	N.A.	5.70
80-90	21.26	N.A.	1.90
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1090.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	42.29
10-20	119.91
20-30	177.17
30-40	204.27
40-50	196.11
50-60	158.69
60-70	108.67
70-80	61.93
80-90	21.26
90-100	0.05
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-L220-950-SYM-ASY-EM10W-DIM1-UNV\_(EMER MODE).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	76	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	67	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	39	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	44	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	29	27

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## 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	11.7	13.3	12.0	13.6	13.9	9.5	11.1	9.9	11.4	11.7
	3H	13.2	14.6	13.5	14.9	15.3	11.1	12.5	11.5	12.8	13.2
	4H	13.7	15.1	14.1	15.4	15.8	11.7	13.0	12.1	13.3	13.7
	6H	14.2	15.4	14.6	15.8	16.2	12.2	13.4	12.6	13.8	14.1
	8H	14.4	15.6	14.8	16.0	16.4	12.3	13.5	12.8	13.9	14.3
	12H	14.5	15.7	15.0	16.0	16.5	12.5	13.6	12.9	14.0	14.4

### UGR Viewed Endwise

4H	2H	12.1	13.5	12.5	13.8	14.2	10.1	11.4	10.5	11.8	12.2
	3H	13.8	14.9	14.2	15.3	15.7	11.9	13.0	12.3	13.4	13.8
	4H	14.5	15.5	14.9	15.9	16.4	12.6	13.6	13.0	14.0	14.4
	6H	15.1	16.0	15.6	16.5	16.9	13.2	14.1	13.7	14.5	15.0
	8H	15.4	16.2	15.8	16.6	17.1	13.4	14.3	13.9	14.7	15.2
	12H	15.6	16.3	16.0	16.8	17.3	13.7	14.4	14.1	14.9	15.3

8H	4H	14.7	15.6	15.2	16.0	16.5	12.9	13.7	13.3	14.1	14.6
	6H	15.5	16.2	16.0	16.6	17.1	13.7	14.3	14.1	14.8	15.3
	8H	15.8	16.4	16.3	16.9	17.4	14.0	14.6	14.5	15.1	15.6
	12H	16.1	16.6	16.6	17.1	17.7	14.3	14.8	14.8	15.3	15.9

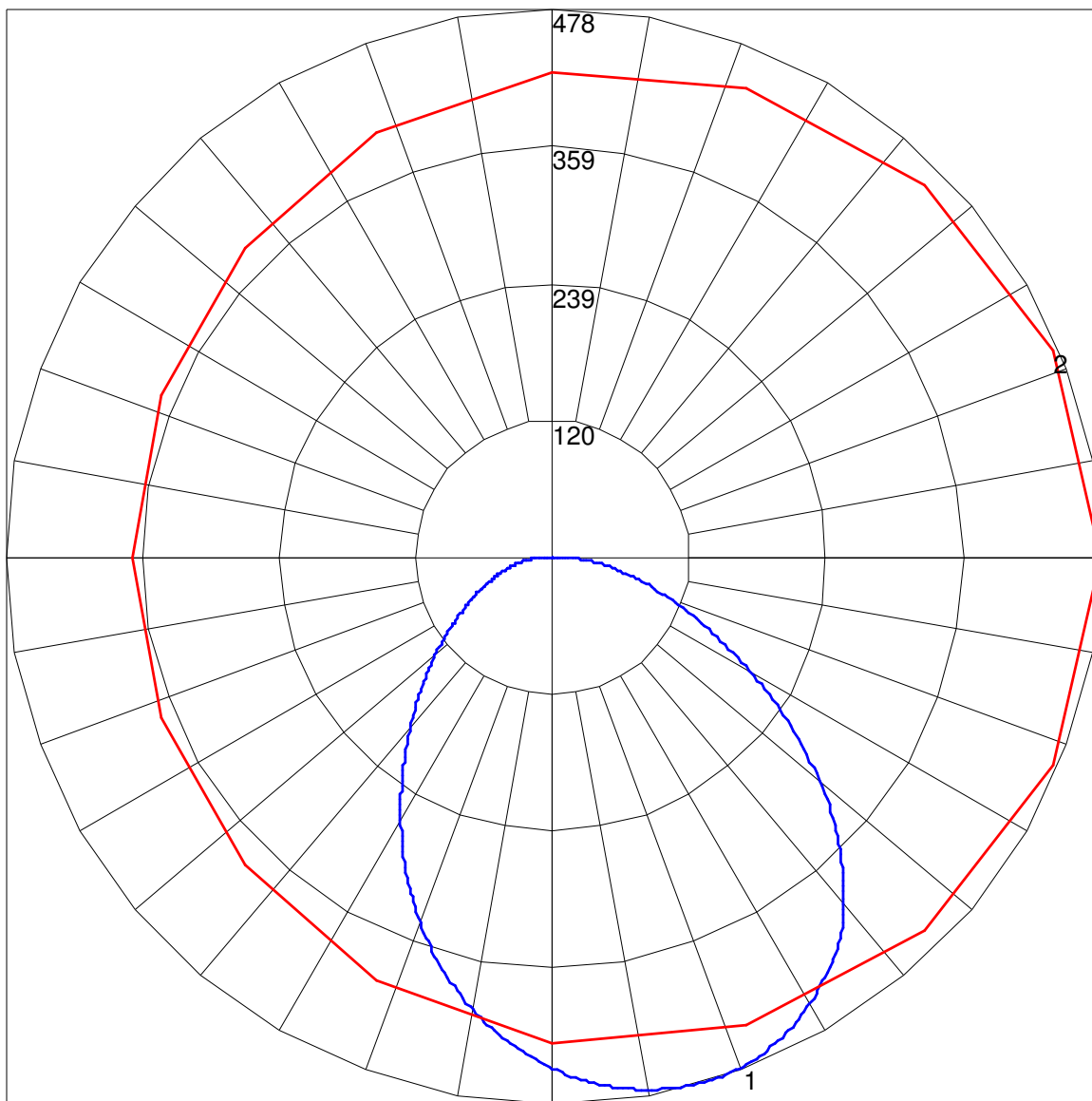
12H	4H	14.7	15.5	15.2	16.0	16.4	12.9	13.7	13.4	14.1	14.6
	6H	15.5	16.1	16.0	16.6	17.1	13.7	14.4	14.2	14.8	15.4
	8H	15.9	16.4	16.4	16.9	17.5	14.1	14.7	14.6	15.2	15.7

Maximum UGR = 17.7

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## POLAR GRAPH



Maximum Candela = 478.052 Located At Horizontal Angle = 0, Vertical Angle = 16

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

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