



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-24-L220-950-SYM-ASY-2C-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 12186363.04
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 06-21-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MDSG-24-L220-950-SYM-ASY-2C-EM10W-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	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	797	633
55	767	696	544
65	624	571	456
75	528	470	391
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	447.796	447.796	447.796	447.796	447.796	447.796	447.796	447.796	447.796
0.5	449.084	448.260	447.899	449.394	451.095	448.002	445.321	444.960	445.476
1.0	450.786	449.858	449.187	449.909	451.043	447.228	443.981	443.259	443.620
1.5	452.538	451.456	450.270	450.476	450.889	446.404	442.589	441.454	441.764
2.0	454.137	452.899	451.353	450.992	450.683	445.527	441.145	439.598	439.805
2.5	455.632	454.291	452.384	451.507	450.425	444.599	439.650	437.794	437.794
3.0	457.230	455.735	453.363	451.868	450.219	443.620	438.052	435.887	435.835
3.5	458.725	457.127	454.291	452.229	449.858	442.640	436.557	433.928	433.773
4.0	460.117	458.364	455.219	452.538	449.497	441.558	434.959	431.917	431.659
4.5	461.509	459.601	456.044	452.848	449.084	440.423	433.257	429.855	429.442
5.0	462.798	460.736	456.817	453.054	448.569	439.341	431.505	427.741	427.277
5.5	463.983	461.870	457.642	453.209	448.053	438.103	429.700	425.731	424.957
6.0	465.169	462.901	458.312	453.312	447.486	436.866	427.896	423.565	422.637
6.5	466.406	463.983	458.880	453.312	446.816	435.526	426.143	421.297	420.266
7.0	467.438	464.911	459.447	453.312	446.146	434.185	424.287	419.029	417.791
7.5	468.417	465.788	460.014	453.260	445.373	432.793	422.328	416.709	415.317
8.0	469.397	466.664	460.478	453.157	444.548	431.350	420.317	414.389	412.791
8.5	470.325	467.489	460.839	453.002	443.723	429.855	418.204	412.017	410.213
9.0	471.149	468.211	461.251	452.848	442.846	428.257	416.142	409.697	407.893
9.5	471.974	468.881	461.560	452.538	441.815	426.607	413.976	407.377	405.212
10.0	472.696	469.500	461.870	452.229	440.836	425.009	411.811	404.851	402.480
10.5	473.366	470.118	462.076	451.868	439.753	423.308	409.594	402.274	399.696
11.0	474.036	470.582	462.179	451.456	438.619	421.400	407.481	399.593	396.912
11.5	474.655	471.098	462.282	450.992	437.485	419.544	405.212	396.912	394.077
12.0	475.222	471.510	462.282	450.425	436.248	417.740	402.789	394.231	391.190
12.5	475.789	471.871	462.282	449.858	435.010	415.832	400.366	391.447	388.251
13.0	476.253	472.180	462.231	449.239	433.618	413.873	397.892	388.560	385.261
13.5	476.666	472.387	462.076	448.517	432.278	411.811	395.365	385.673	382.322
14.0	477.026	472.593	461.921	447.744	430.886	409.955	392.839	382.786	379.281
14.5	477.336	472.696	461.612	446.868	429.391	407.893	390.210	379.796	376.239
15.0	477.594	472.799	461.251	445.940	427.896	405.882	387.529	376.755	373.094
15.5	477.800	472.748	460.839	445.012	426.298	403.717	384.797	373.661	370.001
16.0	477.903	472.696	460.323	444.032	424.699	401.500	382.065	370.517	366.856
16.5	477.903	472.593	459.756	442.949	423.050	399.232	379.281	367.423	363.660
17.0	477.851	472.438	459.189	441.764	421.348	396.912	376.445	364.227	360.412
17.5	477.748	472.129	458.519	440.578	419.493	394.592	373.558	361.082	357.113
18.0	477.542	471.768	457.797	439.341	417.637	392.221	370.671	357.783	353.813
18.5	477.233	471.356	457.024	438.000	415.832	389.798	367.784	354.483	350.462
19.0	476.820	470.892	456.096	436.660	413.873	387.323	364.794	351.184	347.060
19.5	476.356	470.325	455.168	435.320	411.966	384.797	361.804	347.884	343.605
20.0	475.892	469.706	454.137	433.876	410.007	382.219	358.762	344.482	340.151
20.5	475.171	469.036	453.002	432.329	407.996	379.693	355.618	341.131	336.646
21.0	474.552	468.159	451.868	430.783	406.037	377.064	352.524	337.677	333.089
21.5	473.779	467.334	450.683	429.185	403.872	374.435	349.431	334.274	329.531
22.0	472.902	466.406	449.497	427.535	401.655	371.702	346.235	330.717	325.871
22.5	471.974	465.375	448.208	425.782	399.387	368.918	343.038	327.160	322.262
23.0	470.995	464.293	446.868	423.978	397.067	366.134	339.842	323.603	318.602
23.5	469.964	463.210	445.424	422.173	394.747	363.299	336.543	320.045	314.890
24.0	468.881	462.024	443.877	420.317	392.375	360.412	333.295	316.437	311.178
24.5	467.695	460.736	442.382	418.410	389.952	357.473	329.892	312.776	307.466
25.0	466.406	459.395	440.784	416.348	387.426	354.535	326.541	309.116	303.754
25.5	465.118	457.952	439.135	414.389	384.952	351.545	323.139	305.404	299.991
26.0	463.726	456.508	437.433	412.275	382.322	348.503	319.736	301.795	296.279
26.5	462.334	454.962	435.732	410.161	379.796	345.410	316.334	298.084	292.464

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CANDELA TABULATION - (Cont.)

27.0	460.839	453.363	433.928	407.945	377.167	342.317	312.828	294.372	288.701
27.5	459.292	451.662	432.072	405.831	374.435	339.120	309.322	290.608	284.886
28.0	457.745	449.961	430.113	403.562	371.702	335.976	305.868	286.896	281.122
28.5	455.993	448.156	428.102	401.191	368.918	332.779	302.311	283.236	277.359
29.0	454.137	446.300	426.040	398.871	366.083	329.531	298.754	279.576	273.544
29.5	452.178	444.290	423.875	396.396	363.196	326.283	295.145	275.915	269.729
30.0	450.270	442.279	421.761	393.922	360.309	323.036	291.588	272.204	265.966
30.5	448.260	440.166	419.493	391.293	357.319	319.788	288.031	268.492	262.202
31.0	446.197	437.949	417.121	388.663	354.277	316.488	284.525	264.780	258.336
31.5	444.135	435.732	414.698	386.034	351.235	313.086	280.968	261.068	254.521
32.0	442.125	433.360	412.223	383.353	348.142	309.683	277.359	257.356	250.706
32.5	439.908	430.989	409.749	380.569	345.049	306.332	273.699	253.696	246.994
33.0	437.794	428.463	407.171	377.786	341.904	302.930	270.141	250.087	243.230
33.5	435.577	425.885	404.490	374.899	338.656	299.527	266.533	246.427	239.519
34.0	433.257	423.153	401.707	371.908	335.408	296.125	262.975	242.766	235.807
34.5	430.834	420.317	398.820	368.764	332.109	292.619	259.367	239.158	232.146
35.0	428.360	417.430	395.881	365.619	328.758	289.062	255.758	235.549	228.486
35.5	425.834	414.543	392.891	362.371	325.407	285.504	252.149	231.940	224.826
36.0	423.153	411.502	389.798	359.072	321.953	281.947	248.644	228.383	221.269
36.5	420.214	408.512	386.601	355.772	318.550	278.390	245.086	224.774	217.711
37.0	417.224	405.470	383.302	352.421	315.096	274.833	241.529	221.269	214.257
37.5	414.079	402.119	379.951	348.967	311.591	271.276	237.920	217.763	210.803
38.0	410.728	398.716	376.497	345.410	308.033	267.718	234.312	214.360	207.401
38.5	407.532	395.108	372.991	341.801	304.322	264.058	230.754	210.958	203.998
39.0	403.872	391.447	369.382	338.089	300.661	260.449	227.197	207.504	200.595
39.5	400.211	387.787	365.722	334.377	297.001	256.789	223.640	204.101	197.193
40.0	396.396	384.024	361.959	330.666	293.289	253.129	220.134	200.699	193.842
40.5	392.478	380.157	358.144	326.902	289.577	249.468	216.629	197.348	190.491
41.0	388.406	376.187	354.226	323.139	285.865	245.808	213.123	194.048	187.192
41.5	384.230	372.115	350.153	319.272	281.999	242.148	209.617	190.749	183.995
42.0	380.002	367.887	346.080	315.406	278.184	238.487	206.163	187.501	180.799
42.5	375.620	363.608	341.956	311.384	274.317	234.879	202.709	184.253	177.654
43.0	371.341	359.226	337.780	307.312	270.399	231.167	199.307	181.057	174.458
43.5	366.959	354.741	333.553	303.239	266.430	227.455	195.904	177.809	171.313
44.0	362.577	350.256	329.274	299.166	262.511	223.692	192.553	174.612	168.168
44.5	358.144	345.719	324.943	295.042	258.542	219.928	189.151	171.519	165.127
45.0	353.658	341.131	320.509	290.866	254.624	216.268	185.903	168.426	162.085
45.5	349.070	336.491	316.024	286.690	250.757	212.659	182.603	165.384	159.198
46.0	344.430	331.697	311.591	282.514	246.839	209.102	179.355	162.394	156.362
46.5	339.687	326.851	306.951	278.235	242.870	205.442	176.056	159.353	153.475
47.0	334.790	321.901	302.414	273.905	238.900	201.781	172.808	156.466	150.640
47.5	329.892	317.055	297.826	269.523	234.879	198.121	169.612	153.579	147.856
48.0	324.891	312.106	293.186	265.141	230.858	194.461	166.415	150.640	145.072
48.5	319.685	307.157	288.598	260.707	226.991	190.852	163.322	147.804	142.391
49.0	314.581	302.259	284.061	256.428	223.124	187.346	160.229	145.021	139.711
49.5	309.219	297.310	279.318	252.098	219.258	183.892	157.136	142.237	137.081
50.0	303.806	292.310	274.627	247.767	215.443	180.438	154.146	139.607	134.504
50.5	298.393	287.206	269.884	243.437	211.473	177.035	151.155	136.978	131.978
51.0	292.928	282.050	265.089	239.106	207.607	173.633	148.165	134.297	129.451
51.5	287.567	276.947	260.346	234.724	203.637	170.230	145.227	131.720	126.925
52.0	282.153	271.843	255.552	230.394	199.771	166.776	142.288	129.142	124.451
52.5	276.792	266.739	250.809	226.063	195.956	163.425	139.401	126.616	121.925
53.0	271.430	261.687	246.014	221.733	192.244	160.074	136.617	124.090	119.450
53.5	265.966	256.634	241.220	217.454	188.429	156.878	133.833	121.615	117.027
54.0	260.656	251.531	236.425	213.278	184.717	153.682	131.101	119.192	114.707
54.5	255.242	246.324	231.631	208.999	180.954	150.537	128.369	116.821	112.387

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CANDELA TABULATION - (Cont.)

55.0	249.984	241.065	226.836	204.771	177.242	147.392	125.688	114.449	110.067
55.5	244.829	235.807	222.042	200.441	173.581	144.247	123.007	112.078	107.850
56.0	239.673	230.651	217.299	196.213	169.869	141.103	120.378	109.758	105.634
56.5	234.518	225.547	212.556	191.986	166.209	137.958	117.800	107.489	103.417
57.0	229.466	220.495	207.916	187.759	162.600	134.916	115.274	105.221	101.251
57.5	224.413	215.495	203.276	183.583	159.095	131.926	112.800	103.004	99.138
58.0	219.206	210.545	198.688	179.458	155.538	129.039	110.325	100.839	97.127
58.5	213.999	205.596	194.048	175.437	152.032	126.203	107.902	98.725	95.117
59.0	208.896	200.595	189.408	171.365	148.526	123.316	105.479	96.612	93.209
59.5	203.792	195.595	184.820	167.292	145.021	120.481	103.056	94.601	91.250
60.0	198.791	190.646	180.232	163.219	141.515	117.542	100.684	92.539	89.343
60.5	193.739	185.800	175.747	159.095	138.112	114.759	98.416	90.528	87.435
61.0	188.635	181.108	171.313	155.074	134.813	112.026	96.096	88.518	85.631
61.5	183.583	176.468	166.931	151.155	131.565	109.294	93.879	86.610	83.723
62.0	178.531	171.829	162.549	147.341	128.369	106.665	91.714	84.754	81.970
62.5	173.530	167.292	158.218	143.526	125.172	104.138	89.600	82.898	80.218
63.0	168.632	162.755	153.991	139.762	121.976	101.612	87.435	81.094	78.516
63.5	163.683	158.218	149.660	135.999	118.728	99.086	85.321	79.290	76.763
64.0	159.043	153.682	145.433	132.338	115.583	96.560	83.208	77.537	75.114
64.5	154.352	149.248	141.206	128.627	112.490	94.086	81.146	75.784	73.412
65.0	149.918	144.917	137.133	125.018	109.500	91.559	79.135	74.031	71.763
65.5	145.485	140.690	133.112	121.461	106.562	89.188	77.227	72.381	70.165
66.0	141.206	136.617	129.194	117.955	103.675	86.868	75.320	70.732	68.515
66.5	136.927	132.545	125.327	114.604	100.788	84.600	73.412	69.082	67.020
67.0	132.854	128.472	121.512	111.253	97.900	82.383	71.557	67.535	65.473
67.5	128.936	124.451	117.749	107.902	95.065	80.218	69.701	65.937	64.030
68.0	125.121	120.481	114.037	104.602	92.178	78.001	67.896	64.391	62.586
68.5	121.357	116.666	110.325	101.355	89.394	75.836	66.092	62.844	61.091
69.0	117.697	112.954	106.716	98.158	86.662	73.722	64.339	61.297	59.648
69.5	114.140	109.294	103.211	95.013	84.033	71.557	62.586	59.802	58.204
70.0	110.583	105.685	99.860	91.920	81.403	69.494	60.885	58.307	56.812
70.5	107.129	102.283	96.509	88.879	78.877	67.484	59.235	56.864	55.420
71.0	103.675	98.880	93.261	85.940	76.299	65.525	57.637	55.420	54.080
71.5	100.220	95.529	90.013	83.053	73.773	63.617	56.039	54.028	52.739
72.0	96.869	92.126	86.816	80.166	71.299	61.710	54.389	52.585	51.430
72.5	93.518	88.724	83.672	77.279	68.824	59.802	52.791	51.193	50.121
73.0	90.271	85.528	80.578	74.495	66.453	57.895	51.244	49.780	48.801
73.5	87.074	82.434	77.588	71.763	64.081	55.987	49.739	48.383	47.455
74.0	83.929	79.341	74.650	69.082	61.864	54.080	48.280	47.007	46.104
74.5	80.785	76.403	71.866	66.453	59.648	52.275	46.847	45.646	44.785
75.0	77.743	73.464	69.134	63.875	57.585	50.487	45.429	44.290	43.486
75.5	74.753	70.629	66.453	61.400	55.472	48.775	43.996	42.944	42.228
76.0	71.763	67.845	63.720	58.977	53.358	47.074	42.552	41.624	40.980
76.5	68.876	65.009	61.040	56.606	51.265	45.357	41.114	40.305	39.702
77.0	65.989	62.174	58.359	54.183	49.177	43.666	39.686	38.990	38.433
77.5	63.153	59.441	55.833	51.863	47.120	41.934	38.294	37.681	37.139
78.0	60.473	56.812	53.358	49.553	45.156	40.207	36.933	36.320	35.845
78.5	57.843	54.338	50.961	47.254	43.254	38.511	35.572	34.995	34.541
79.0	55.317	51.915	48.553	45.037	41.392	36.856	34.190	33.721	33.211
79.5	52.739	49.435	46.177	42.898	39.547	35.247	32.757	32.453	31.974
80.0	50.218	46.950	43.815	40.764	37.665	33.665	31.329	31.159	30.736
80.5	47.754	44.501	41.454	38.655	35.737	32.102	29.911	29.860	29.504
81.0	45.280	42.094	39.078	36.541	33.788	30.535	28.483	28.545	28.236
81.5	42.764	39.691	36.701	34.381	31.855	28.937	26.999	27.256	26.942
82.0	40.253	37.294	34.350	32.267	29.973	27.293	25.524	25.952	25.633
82.5	37.768	34.902	32.077	30.169	28.133	25.653	24.050	24.638	24.323

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CANDELA TABULATION - (Cont.)

83.0	35.283	32.597	29.881	28.076	26.318	24.014	22.653	23.297	23.019
83.5	32.752	30.314	27.700	26.029	24.478	22.410	21.250	21.988	21.668
84.0	30.138	28.009	25.462	24.009	22.673	20.848	19.817	20.673	20.333
84.5	27.452	25.617	23.158	21.988	20.807	19.291	18.307	19.343	19.034
85.0	24.787	23.112	20.859	19.998	18.936	17.729	16.776	18.008	17.683
85.5	22.044	20.544	18.595	17.972	17.033	16.126	15.244	16.652	16.291
86.0	19.338	17.997	16.368	15.925	15.116	14.487	13.770	15.244	14.858
86.5	16.605	15.482	14.177	13.842	13.198	12.827	12.316	13.811	13.301
87.0	13.935	12.981	11.950	11.723	11.290	11.141	10.873	12.383	11.744
87.5	11.347	10.522	9.646	9.589	9.372	9.429	9.414	10.898	10.228
88.0	8.970	8.243	7.511	7.460	7.480	7.723	7.965	9.403	8.733
88.5	6.805	6.166	5.568	5.331	5.578	6.052	6.552	7.877	7.212
89.0	4.815	4.325	3.789	3.470	3.681	4.439	5.150	6.424	5.795
89.5	3.098	2.670	2.253	1.938	1.933	2.944	3.763	5.057	4.465
90.0	1.748	1.464	1.103	0.753	0.639	1.665	2.516	3.758	3.284
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-2C-EM10W-DIM-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-2C-EM10W-DIM-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-2C-EM10W-DIM-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-2C-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	162.15	N.A.	14.90
0-30	339.27	N.A.	31.10
0-40	543.48	N.A.	49.90
0-60	898.17	N.A.	82.40
0-80	1068.71	N.A.	98.00
0-90	1089.97	N.A.	100.00
10-90	1047.69	N.A.	96.10
20-40	381.33	N.A.	35.00
20-50	577.38	N.A.	53.00
40-70	463.33	N.A.	42.50
60-80	170.55	N.A.	15.60
70-80	61.91	N.A.	5.70
80-90	21.26	N.A.	2.00
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	1090.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.28
10-20	119.88
20-30	177.12
30-40	204.21
40-50	196.05
50-60	158.64
60-70	108.64
70-80	61.91
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-2C-EM10W-DIM-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	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-L220-950-SYM-ASY-2C-EM10W-DIM-UNV_(EMER MODE).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	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	13.4	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	16.4	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	15.5	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

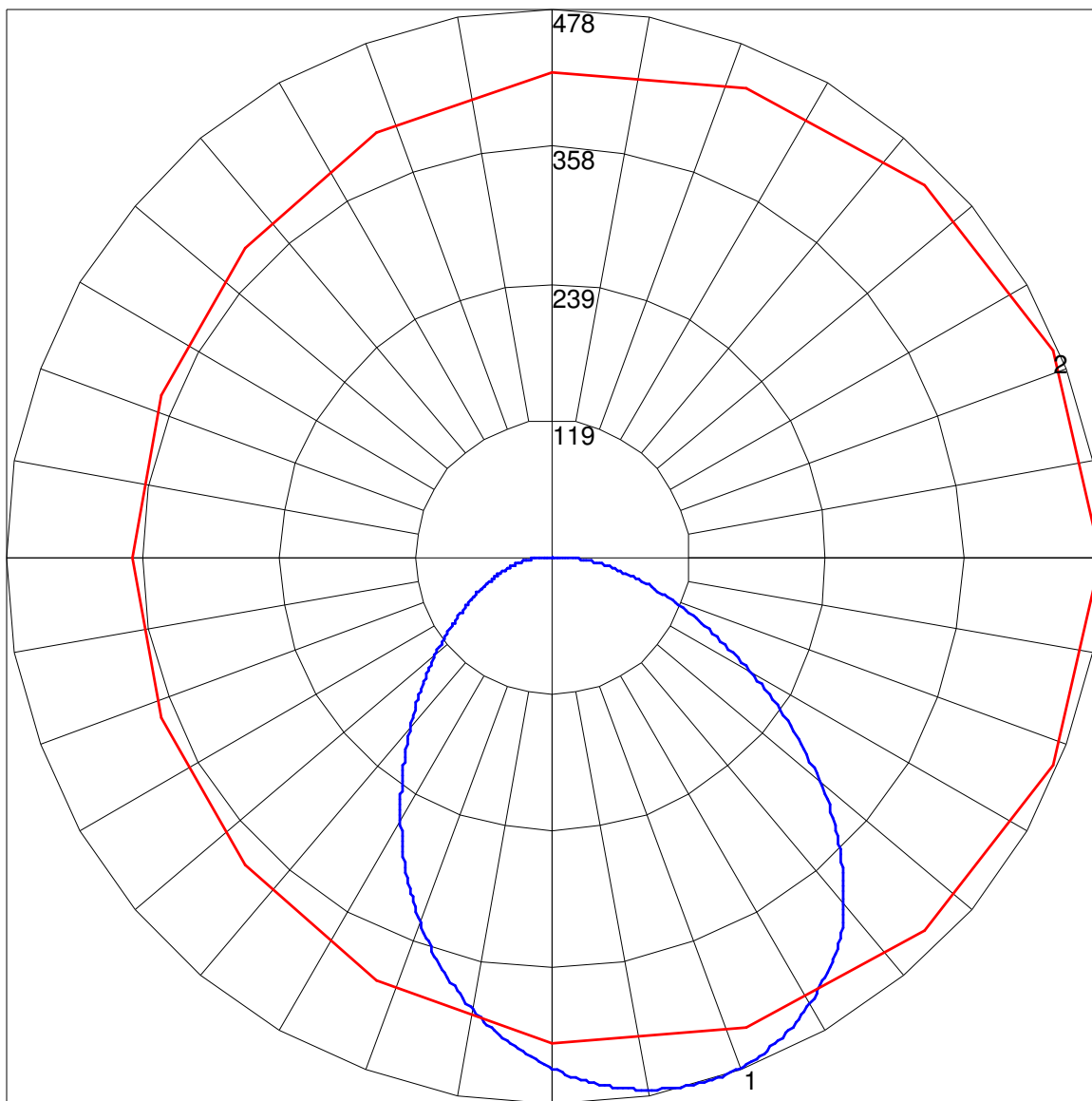
12H	4H	14.7	15.5	15.2	16.0	16.4	12.9	13.7	13.4	14.1	14.6
	6H	15.5	16.1	16.0	16.6	17.1	13.7	14.3	14.2	14.8	15.3
	8H	15.9	16.4	16.4	16.9	17.5	14.1	14.7	14.6	15.2	15.7

Maximum UGR = 17.7

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 477.903 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.)