

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_
[LUMINAIRE] 4' wall mounted fixture with both up and down lighting
[MORE] compartments
[LAMP] (2) 56 LED boards - 112 Total LED
[OTHER] This test was performed using the calibrated photodetector method
[MORE] of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	41.6
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10885	10307	9881
55	10820	9863	9064
65	10839	9521	8098
75	11027	9306	6682
85	11592	9518	4666

IES INDOOR REPORT
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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	788.973	788.973	788.973	788.973	788.973	788.973	788.973	788.973	788.973
0.5	790.082	791.399	789.932	792.937	787.559	791.651	786.337	786.295	786.370
1.0	792.233	793.275	792.832	793.580	787.074	790.470	784.080	784.038	784.166
1.5	795.080	795.795	793.686	795.299	787.074	788.266	782.899	781.297	780.401
2.0	797.495	798.906	795.615	795.457	786.484	786.600	780.748	779.093	778.197
2.5	800.985	801.046	798.188	796.153	785.946	785.524	778.597	777.480	776.099
3.0	803.294	804.262	800.223	796.311	785.408	784.449	776.983	774.253	773.357
3.5	806.352	807.098	801.720	798.135	785.408	782.245	774.294	772.049	771.744
4.0	810.380	809.934	804.292	798.293	784.280	780.094	773.219	769.360	767.979
4.5	812.204	812.284	806.327	797.966	783.742	779.556	770.530	766.671	764.700
5.0	813.216	815.226	808.087	799.737	782.666	776.867	767.303	763.929	761.526
5.5	816.969	817.629	808.667	799.948	781.053	774.178	765.689	761.240	759.912
6.0	819.489	819.548	810.216	799.621	779.925	773.587	763.538	759.036	756.633
6.5	821.524	823.185	811.819	799.347	778.902	771.489	760.744	755.219	753.459
7.0	823.559	825.483	812.883	799.452	778.311	769.770	758.055	751.939	749.641
7.5	825.635	827.401	814.000	799.230	775.570	767.081	754.828	749.250	745.877
8.0	829.630	828.782	815.381	797.827	773.956	764.392	752.139	745.971	742.112
8.5	833.170	830.806	816.762	798.629	773.418	762.779	749.397	742.744	738.400
9.0	838.008	832.935	817.984	797.764	770.729	760.037	746.118	738.389	734.635
9.5	840.400	834.789	818.722	798.027	769.063	756.810	742.891	735.110	733.560
10.0	843.067	837.667	819.406	797.268	767.450	754.606	740.202	731.883	727.644
10.5	845.681	839.364	820.629	796.455	764.761	751.970	736.923	728.066	725.008
11.0	847.273	840.575	821.366	795.158	763.633	749.228	733.105	725.376	721.243
11.5	848.706	842.482	821.566	793.861	760.406	746.001	729.931	721.021	716.403
12.0	849.601	843.852	822.303	793.639	758.255	744.335	726.652	717.257	712.153
12.5	852.701	846.297	822.556	792.341	756.588	739.980	722.887	713.492	708.389
13.0	854.450	847.614	822.913	791.044	754.437	737.291	719.070	709.137	703.116
13.5	855.819	849.363	823.271	790.284	750.673	734.064	715.790	704.782	699.994
14.0	858.422	850.469	823.681	789.040	749.007	729.709	710.950	700.480	695.312
14.5	860.224	851.628	822.911	787.152	746.318	727.020	707.133	696.177	690.525
15.0	860.255	852.196	823.163	785.907	742.500	723.741	703.368	691.875	685.737
15.5	861.372	852.817	823.088	783.482	739.274	720.461	699.013	687.034	683.048
16.0	861.846	853.976	822.476	781.489	736.532	716.697	695.734	682.732	676.542
16.5	864.164	855.135	823.476	780.782	733.843	712.932	691.431	678.967	673.315
17.0	866.703	854.680	823.402	778.356	731.154	708.577	687.614	674.074	670.141
17.5	867.102	856.430	822.736	775.340	727.337	705.835	682.721	670.795	664.710
18.0	868.630	855.975	822.071	774.095	723.572	700.405	677.881	665.955	660.946
18.5	870.695	856.649	821.248	771.775	719.755	697.178	675.677	663.266	656.053
19.0	870.177	857.322	821.067	770.098	716.528	692.823	671.375	658.426	651.212
19.5	872.611	857.406	819.706	767.935	712.710	689.543	666.482	653.585	645.782
20.0	873.811	857.056	819.526	765.077	709.484	685.241	664.330	648.745	640.942
20.5	874.158	857.730	817.680	762.757	706.204	680.886	659.438	643.852	635.511
21.0	874.452	857.328	816.962	759.572	701.364	676.583	654.597	639.012	630.671
21.5	875.336	857.569	815.654	757.947	698.084	674.380	650.295	633.634	625.293
22.0	876.484	857.378	814.398	755.838	693.782	669.001	645.402	628.794	619.862
22.5	877.147	857.187	813.089	753.085	689.427	665.131	640.509	623.954	615.022
23.0	876.681	857.481	811.834	750.279	685.610	659.754	635.669	618.576	609.591
23.5	876.806	856.910	811.063	746.399	680.769	657.602	630.776	613.197	604.213
24.0	877.416	856.824	809.269	744.341	677.543	653.247	625.883	608.305	598.297
24.5	877.762	856.633	808.014	741.209	672.650	648.407	621.043	602.979	593.457
25.0	877.033	856.494	805.682	738.941	671.036	643.461	616.150	597.549	588.026
25.5	875.766	855.280	804.427	736.189	667.219	638.621	611.310	592.170	582.110
26.0	876.113	854.983	802.633	731.822	663.454	633.728	605.879	587.330	577.217
26.5	875.437	853.611	800.892	728.479	658.562	628.888	600.986	581.952	571.249

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	874.222	852.777	799.742	725.726	653.669	623.942	595.608	576.574	565.871
27.5	874.189	852.480	796.493	722.974	649.313	619.102	590.715	571.144	560.440
28.0	874.536	851.108	794.372	718.017	644.473	613.672	585.822	565.765	554.524
28.5	873.111	849.736	792.736	715.749	640.171	608.831	580.444	560.388	549.094
29.0	871.949	849.439	791.101	711.383	634.793	603.938	575.066	554.472	543.716
29.5	871.706	846.991	789.033	706.912	629.900	598.560	569.635	549.094	538.069
30.0	871.293	845.514	786.860	704.106	625.007	593.077	564.795	543.663	532.478
30.5	869.920	844.300	784.686	700.278	620.167	588.237	559.365	538.231	527.099
31.0	869.729	843.465	782.566	696.344	615.327	582.806	553.987	532.799	521.507
31.5	868.568	842.526	779.317	694.614	610.434	577.428	548.609	527.475	515.968
32.0	866.763	841.154	777.734	690.143	605.056	572.535	543.178	521.935	510.643
32.5	867.110	839.244	774.970	687.875	600.163	567.105	537.746	516.557	504.998
33.0	864.177	838.462	772.691	684.047	595.322	561.726	532.314	510.911	499.351
33.5	864.681	835.961	769.875	679.628	589.892	556.296	526.936	505.479	493.920
34.0	863.952	834.104	766.520	675.747	584.514	550.918	521.505	500.155	488.274
34.5	862.253	832.194	763.166	671.276	579.083	546.025	516.074	494.615	482.788
35.0	860.238	830.284	760.940	666.857	573.705	540.486	510.750	489.184	477.464
35.5	858.971	828.965	758.609	662.976	568.865	535.055	505.425	483.698	471.871
36.0	856.944	825.979	755.360	658.557	563.487	529.623	499.993	478.320	466.279
36.5	855.783	824.069	753.081	654.138	557.571	524.192	494.348	473.050	460.739
37.0	853.926	822.750	749.136	649.667	552.140	518.922	489.077	467.511	455.146
37.5	852.279	819.817	745.729	645.248	546.762	513.330	483.699	461.918	449.877
38.0	851.603	817.369	743.556	640.829	541.384	507.898	478.214	456.648	444.177
38.5	848.237	815.511	739.126	636.410	535.900	502.359	472.836	451.163	438.530
39.0	846.591	814.192	736.257	631.453	530.307	497.036	467.350	445.785	433.045
39.5	844.248	811.206	736.667	626.982	524.875	491.604	462.079	440.300	427.613
40.0	843.625	809.349	733.365	622.563	519.282	486.010	456.756	434.923	422.342
40.5	840.365	807.386	730.064	617.606	513.690	480.580	451.217	429.543	416.911
41.0	837.917	804.559	726.657	613.135	508.258	475.148	445.839	424.113	411.373
41.5	835.194	802.111	723.355	608.284	502.557	469.502	440.353	418.842	406.048
42.0	834.518	800.148	719.410	603.917	497.018	464.338	434.976	413.358	400.725
42.5	832.281	797.753	716.056	599.551	491.425	458.854	429.545	407.872	395.454
43.0	829.506	793.692	712.597	595.290	485.833	453.314	424.167	402.709	389.863
43.5	828.187	791.782	709.295	590.439	479.971	447.775	418.627	397.171	384.645
44.0	825.359	789.334	705.456	585.588	474.485	442.344	413.088	391.739	379.536
44.5	823.122	786.939	701.458	580.684	468.784	436.966	407.657	386.416	374.212
45.0	821.475	785.029	698.156	576.265	463.191	431.267	402.279	380.931	368.996
45.5	817.952	781.558	694.264	571.416	457.599	425.780	396.686	375.660	363.511
46.0	817.708	779.163	690.372	566.621	451.898	420.241	391.308	370.336	358.241
46.5	814.448	777.791	687.018	561.770	446.250	414.756	385.769	364.905	353.185
47.0	813.234	776.957	683.126	556.814	440.389	409.271	380.337	359.687	348.077
47.5	811.429	774.720	679.181	552.124	434.581	403.677	374.906	354.310	342.646
48.0	809.245	771.576	675.447	547.434	428.827	397.924	369.581	349.201	337.375
48.5	805.721	768.749	671.397	542.690	423.180	392.331	364.043	343.878	332.159
49.0	803.537	765.763	667.557	537.785	417.534	386.791	358.611	338.715	326.834
49.5	801.405	762.777	663.613	532.881	411.833	381.360	353.286	333.500	321.779
50.0	801.699	760.435	659.668	528.085	406.079	375.822	347.963	328.283	316.455
50.5	797.849	757.449	655.828	523.129	400.378	370.121	342.478	323.334	311.293
51.0	797.120	754.569	651.989	518.334	394.731	364.635	337.154	318.065	306.077
51.5	794.450	751.636	647.506	513.376	389.084	358.988	331.722	312.848	301.022
52.0	791.780	748.113	643.509	508.205	383.330	353.556	326.505	307.740	296.074
52.5	789.491	745.180	639.669	503.356	377.683	348.072	321.182	302.631	290.911
53.0	786.663	742.142	635.240	498.292	371.982	342.479	315.804	297.522	285.695
53.5	783.836	739.261	631.241	493.283	366.443	336.832	310.426	292.466	280.479
54.0	781.219	736.223	627.081	488.165	360.689	331.400	305.101	287.250	275.853
54.5	778.391	732.910	622.759	482.993	355.150	326.022	299.832	282.249	270.746

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	775.669	729.872	618.653	477.984	349.503	320.430	294.508	277.087	265.582
55.5	772.894	726.349	614.598	472.758	343.910	314.784	289.239	271.977	260.634
56.0	770.172	723.416	610.385	467.695	338.209	309.351	284.021	267.083	255.418
56.5	767.555	719.893	606.008	462.416	332.561	303.813	278.590	261.813	250.632
57.0	764.780	717.012	601.688	457.190	326.861	298.380	273.534	256.974	245.898
57.5	761.467	713.542	597.525	451.966	321.267	292.735	268.372	251.757	240.683
58.0	758.534	709.966	593.258	446.579	315.460	287.249	263.048	246.863	235.681
58.5	755.918	706.495	588.885	441.355	309.759	281.817	257.938	241.862	230.626
59.0	753.143	703.129	584.348	435.968	303.951	276.332	252.829	236.806	225.839
59.5	749.883	699.501	580.131	430.582	298.089	270.793	247.774	231.912	220.945
60.0	746.359	695.977	575.596	425.358	292.335	265.201	242.719	226.964	215.998
60.5	743.152	692.506	571.383	420.133	286.634	259.715	237.557	222.070	211.050
61.0	740.377	688.981	567.007	415.015	280.987	254.176	232.394	217.123	206.156
61.5	737.012	685.457	562.632	409.737	275.233	248.798	227.231	212.175	201.208
62.0	733.109	681.719	558.042	404.350	269.584	243.260	222.283	207.228	196.475
62.5	729.796	678.032	553.719	399.072	263.776	237.828	217.120	202.227	191.474
63.0	726.483	674.506	549.400	393.794	258.183	232.235	211.959	197.333	186.687
63.5	723.170	670.607	545.025	388.514	252.482	226.696	206.902	192.491	181.740
64.0	719.910	666.814	540.435	383.236	246.782	221.425	201.793	187.490	177.116
64.5	716.060	663.076	536.115	377.958	241.136	215.939	196.576	182.596	172.651
65.0	712.372	659.337	531.364	372.465	235.435	210.561	191.360	177.755	167.649
65.5	708.632	655.384	526.988	367.025	229.681	205.076	186.358	172.861	162.917
66.0	704.997	651.321	522.559	361.748	224.086	199.591	181.141	168.075	158.291
66.5	701.574	647.423	517.864	356.416	218.494	194.106	176.141	163.127	153.666
67.0	697.724	643.522	513.488	351.084	212.900	188.728	171.246	158.395	149.203
67.5	693.982	639.621	508.790	345.591	207.306	183.457	166.244	153.608	144.524
68.0	690.293	635.562	504.202	340.152	201.445	178.241	161.190	148.875	139.737
68.5	686.389	631.499	499.667	334.766	195.798	172.755	156.135	144.143	135.005
69.0	682.971	627.493	494.915	329.489	190.259	167.538	151.133	139.410	130.648
69.5	679.120	623.593	490.486	324.265	184.719	162.160	146.399	134.785	126.131
70.0	675.484	619.530	485.737	319.040	179.126	156.944	141.506	130.160	121.612
70.5	671.740	615.416	481.147	313.762	173.588	151.620	136.666	125.427	116.934
71.0	668.104	611.354	476.504	308.326	167.994	146.458	131.826	120.963	112.417
71.5	664.413	607.291	471.649	303.103	162.723	141.295	127.094	116.500	107.953
72.0	660.406	602.965	467.112	298.039	157.236	136.132	122.361	112.036	103.865
72.5	656.607	599.009	462.469	292.870	151.375	131.023	117.682	107.734	99.293
73.0	652.654	594.841	457.934	287.861	146.104	126.021	113.111	103.216	94.991
73.5	648.802	590.566	453.347	282.690	140.673	121.181	108.485	98.806	90.581
74.0	645.004	586.451	448.598	277.522	135.348	116.287	103.914	94.610	86.387
74.5	640.889	582.125	444.008	272.407	130.185	111.447	99.450	90.361	82.461
75.0	636.985	578.010	439.208	267.450	124.968	106.606	95.040	86.168	78.213
75.5	632.976	573.735	434.621	262.283	119.858	101.874	90.629	81.865	74.178
76.0	628.913	569.621	430.247	257.222	114.749	97.249	86.167	77.832	70.252
76.5	624.845	565.293	425.554	252.426	109.640	92.677	81.757	73.637	66.381
77.0	620.729	561.234	420.967	247.312	104.691	88.106	77.668	69.711	62.777
77.5	616.612	556.961	416.382	242.571	99.635	83.588	73.421	65.731	59.012
78.0	612.604	552.849	411.955	237.725	94.903	79.071	69.280	61.913	55.355
78.5	608.271	548.578	407.581	233.145	90.116	74.661	65.192	58.147	51.698
79.0	604.210	544.198	403.103	228.300	85.490	70.412	61.159	54.382	47.987
79.5	600.093	540.087	398.730	223.614	80.811	66.217	57.232	50.618	44.599
80.0	595.873	535.921	394.307	218.985	76.185	62.129	53.413	47.068	41.157
80.5	591.650	531.705	389.881	214.621	71.721	58.042	49.649	43.519	37.823
81.0	587.695	527.648	385.779	210.258	67.418	54.062	45.992	40.077	34.381
81.5	583.633	523.268	381.517	205.896	63.223	50.242	42.387	36.689	31.046
82.0	579.518	519.211	377.414	201.535	59.082	46.478	38.785	33.354	27.928
82.5	575.829	515.531	373.367	197.333	54.941	42.875	35.450	30.288	24.968

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	571.824	511.581	369.213	193.399	50.961	39.218	32.115	27.169	21.904
83.5	568.033	507.577	365.166	189.519	47.143	35.667	28.942	24.103	18.946
84.0	564.347	503.789	361.334	185.643	43.432	32.279	25.823	21.145	16.040
84.5	560.553	499.894	357.450	181.765	39.775	28.998	22.650	18.187	13.352
85.0	556.975	495.946	353.619	178.103	36.225	25.825	19.638	15.444	10.931
85.5	553.449	492.319	349.626	174.440	32.730	22.652	16.733	12.809	8.780
86.0	549.927	488.849	345.796	170.939	29.341	19.587	13.936	10.443	7.221
86.5	546.666	485.695	342.339	167.438	26.061	16.628	11.247	8.613	6.144
87.0	543.668	483.493	338.931	164.204	22.942	13.723	8.881	7.161	5.445
87.5	541.513	481.819	336.372	160.864	19.822	10.926	7.213	6.246	5.013
88.0	540.470	481.043	334.547	157.577	16.649	8.183	6.030	5.600	4.796
88.5	539.684	480.474	333.406	154.710	13.476	5.924	5.383	5.116	4.528
89.0	539.218	480.332	333.115	152.741	10.248	4.849	5.007	4.954	4.473
89.5	539.124	480.242	332.875	152.088	7.503	4.471	4.845	4.793	4.420
90.0	539.186	480.205	332.902	152.126	6.418	4.364	4.790	4.792	4.472
90.5	538.771	480.331	332.934	152.432	7.624	4.362	4.789	4.790	4.417
91.0	538.997	480.724	333.336	153.863	10.256	4.414	4.736	4.843	4.417
91.5	539.115	481.439	334.222	156.372	13.417	5.257	4.788	4.789	4.364
92.0	539.771	482.583	336.235	159.365	16.472	6.783	4.946	4.736	4.469
92.5	540.479	484.529	338.999	162.359	19.420	9.259	5.367	4.894	4.574
93.0	541.939	486.963	342.299	165.831	22.369	12.156	6.420	5.104	4.943
93.5	543.829	490.037	345.813	168.930	25.424	15.053	8.211	5.683	5.786
94.0	546.632	493.541	349.431	172.452	28.637	18.003	10.634	6.841	7.418
94.5	550.024	497.099	352.835	175.922	31.903	20.846	13.425	8.686	9.684
95.0	553.577	500.921	356.826	179.389	35.274	23.953	16.269	10.897	12.211
95.5	557.130	504.797	360.656	183.017	38.750	27.115	19.218	13.584	15.109
96.0	560.844	508.405	364.431	186.749	42.332	30.274	22.380	16.482	17.953
96.5	564.449	512.119	368.313	190.642	46.018	33.593	25.488	19.378	21.008
97.0	568.108	515.888	372.195	194.585	49.811	36.911	28.701	22.433	24.116
97.5	571.872	519.760	376.130	198.528	53.762	40.440	31.966	25.647	27.171
98.0	575.528	523.632	380.067	202.734	57.659	44.022	35.232	28.755	30.278
98.5	579.397	527.610	384.214	206.994	61.821	47.709	38.655	32.019	33.650
99.0	583.212	531.641	388.361	211.199	66.140	51.660	42.185	35.338	37.021
99.5	587.028	535.565	392.559	215.617	70.459	55.557	45.819	38.815	40.551
100.0	590.842	539.596	396.864	220.085	74.883	59.666	49.453	42.292	43.921
100.5	594.658	543.677	401.114	224.555	79.413	63.775	53.245	45.768	47.503
101.0	598.685	547.654	405.472	229.183	84.049	67.883	57.197	49.350	51.032
101.5	602.394	551.627	409.773	233.757	88.736	72.309	61.095	52.984	54.772
102.0	606.418	555.765	414.286	238.438	93.529	76.415	65.151	56.724	58.618
102.5	610.285	559.741	418.641	243.064	98.323	81.051	69.207	60.569	62.410
103.0	614.261	563.822	423.047	247.744	103.328	86.529	73.368	64.414	66.308
103.5	618.232	567.851	427.507	252.529	108.384	91.059	77.582	68.365	70.153
104.0	622.208	571.878	432.020	257.419	113.336	94.903	81.795	72.369	74.262
104.5	626.072	576.119	436.478	262.204	118.392	99.750	86.220	76.477	78.371
105.0	630.152	580.095	440.884	266.988	123.660	104.386	90.593	80.639	82.532
105.5	633.647	584.175	445.448	271.879	128.875	109.284	95.016	84.800	86.693
106.0	637.671	588.256	449.854	276.821	134.142	114.762	99.547	89.014	90.960
106.5	641.433	592.178	454.260	281.818	139.568	120.451	104.130	93.281	95.173
107.0	645.352	596.206	458.718	286.655	144.888	124.612	108.660	97.652	99.757
107.5	649.272	600.286	463.124	291.651	150.313	129.089	113.400	101.972	104.023
108.0	653.032	604.260	467.690	296.751	155.740	134.146	118.036	106.608	108.501
108.5	656.739	608.235	472.201	301.853	161.270	139.309	122.724	111.031	112.926
109.0	660.711	612.051	476.660	306.901	166.749	144.417	127.570	115.668	117.456
109.5	664.365	616.293	481.118	311.896	172.226	149.580	132.364	120.145	121.933
110.0	668.178	620.002	485.472	317.103	177.810	154.795	137.105	124.780	126.623
110.5	671.885	623.979	489.666	322.203	183.393	160.010	142.003	129.415	131.205

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	675.646	627.689	494.070	327.305	189.029	165.278	146.902	134.104	135.893
111.5	679.303	631.559	498.531	332.512	194.665	170.545	151.748	138.845	140.370
112.0	682.799	635.430	502.882	337.665	200.301	175.865	156.752	143.586	144.899
112.5	686.559	639.247	507.341	342.923	206.096	181.291	161.808	148.274	149.535
113.0	689.948	643.065	511.748	348.076	211.680	186.716	166.760	152.961	154.276
113.5	693.657	646.830	516.099	353.441	217.316	192.195	171.869	157.807	159.122
114.0	697.204	650.433	520.451	358.594	223.110	197.568	177.085	162.601	163.863
114.5	700.700	654.144	524.804	363.800	228.693	203.099	183.299	167.553	168.603
115.0	703.985	657.910	529.157	369.060	234.383	208.578	189.936	172.452	173.450
115.5	707.325	661.621	533.456	374.266	240.125	214.161	194.676	177.245	178.138
116.0	710.925	665.067	537.863	379.471	245.866	219.639	197.943	182.143	183.247
116.5	714.160	668.781	542.002	384.678	251.502	225.117	202.473	187.042	188.041
117.0	717.760	672.493	546.462	389.937	257.245	230.806	208.479	192.046	193.046
117.5	720.941	675.886	550.655	395.090	263.091	236.232	215.221	196.839	197.785
118.0	724.122	679.543	554.901	400.349	268.675	241.921	220.593	201.897	202.738
118.5	727.142	682.939	559.360	405.502	274.469	247.506	224.282	206.689	207.636
119.0	730.376	686.227	563.502	410.761	280.211	252.983	228.391	211.852	212.694
119.5	733.611	690.043	567.747	415.914	285.952	258.409	233.447	216.804	217.434
120.0	736.685	693.493	571.941	421.015	291.800	263.940	238.609	221.860	222.702
120.5	739.812	696.835	576.135	426.010	297.489	269.577	243.824	226.865	227.548
121.0	742.939	700.124	580.383	431.216	303.020	275.055	248.986	231.975	232.500
121.5	746.120	703.573	584.472	436.262	308.814	280.480	254.148	238.032	237.452
122.0	748.720	706.916	588.667	441.469	314.555	285.959	259.522	244.933	242.508
122.5	751.955	709.624	592.702	446.517	320.191	291.385	264.684	250.832	247.618
123.0	755.136	713.073	596.843	451.564	325.881	296.969	269.952	254.731	252.674
123.5	758.317	716.308	601.039	456.559	331.623	302.394	275.219	259.418	257.889
124.0	760.971	719.178	605.232	461.554	337.206	307.925	280.541	265.530	264.895
124.5	764.152	722.466	609.265	466.654	342.948	313.510	285.808	270.692	274.009
125.0	766.914	725.862	613.462	471.701	348.532	318.829	291.180	274.168	279.855
125.5	769.514	728.678	617.602	476.750	354.273	324.360	296.449	277.856	282.595
126.0	772.642	732.020	621.481	481.586	359.856	329.838	301.769	282.754	283.543
126.5	775.242	734.943	625.619	486.528	365.440	335.212	306.984	287.812	287.967
127.0	778.004	738.285	630.026	491.471	371.130	340.795	312.251	292.922	293.024
127.5	780.712	741.101	633.798	496.255	376.766	346.221	317.572	297.979	298.134
128.0	783.312	743.971	637.463	501.249	382.296	351.804	322.946	303.088	303.349
128.5	786.020	747.313	641.816	506.191	388.039	357.389	328.054	308.251	308.458
129.0	788.729	750.182	645.589	511.029	393.728	362.814	333.586	313.517	313.673
129.5	788.695	752.998	649.361	515.918	399.364	368.292	339.011	318.628	318.888
130.0	791.457	755.813	653.714	520.808	404.947	373.770	344.384	323.737	324.103
130.5	793.112	758.629	657.433	525.750	410.531	379.354	349.758	328.846	329.371
131.0	795.712	760.864	661.206	530.534	416.220	384.832	354.971	334.009	334.533
131.5	796.367	763.314	664.978	535.371	421.962	390.258	360.292	339.277	339.748
132.0	800.494	765.603	668.751	540.155	427.598	395.683	365.770	344.491	345.121
132.5	803.256	767.838	672.523	544.940	433.340	401.215	371.090	349.706	350.334
133.0	804.437	769.761	676.296	549.619	439.029	406.640	376.621	354.816	355.552
133.5	807.038	771.524	680.068	554.455	444.561	412.172	381.941	360.716	360.766
134.0	810.799	774.920	683.787	559.346	450.144	417.703	387.420	365.878	366.140
134.5	811.927	777.208	687.033	564.129	455.780	423.075	392.845	371.146	371.301
135.0	814.581	780.605	690.806	569.020	461.416	428.712	398.164	376.466	376.834
135.5	817.870	782.313	694.578	573.276	467.053	434.242	403.644	381.840	381.942
136.0	818.944	784.655	698.189	578.167	472.637	439.774	408.964	386.948	387.316
136.5	822.651	786.998	701.543	582.897	478.167	445.093	414.337	392.269	392.423
137.0	822.726	789.760	704.735	587.734	483.804	450.676	419.762	397.485	398.010
137.5	825.799	792.629	708.561	592.098	489.284	456.263	424.977	402.697	403.277
138.0	826.927	794.391	710.592	596.774	494.811	461.632	430.294	407.911	408.219
138.5	830.162	797.788	713.365	601.084	500.132	467.058	435.721	413.444	413.860

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	831.978	799.077	717.137	605.867	505.610	472.325	441.041	418.659	419.234
139.5	833.471	801.312	719.803	610.070	511.143	477.857	446.363	423.980	424.555
140.0	835.125	803.708	723.102	614.327	516.568	483.124	451.524	429.194	429.823
140.5	837.887	806.105	724.768	619.056	522.047	488.603	457.004	434.673	435.513
141.0	839.488	808.393	727.487	623.259	527.632	493.924	462.429	440.257	441.096
141.5	841.669	809.210	731.260	627.989	533.163	499.297	467.749	445.735	446.522
142.0	842.905	812.133	733.925	632.245	538.430	504.670	473.068	451.213	452.000
142.5	844.559	814.422	737.225	636.448	543.697	509.937	478.335	456.428	457.478
143.0	847.160	816.130	739.890	640.758	548.965	515.310	483.603	461.695	462.903
143.5	849.395	817.419	742.609	645.069	554.759	520.788	489.081	467.278	468.382
144.0	848.415	819.289	745.855	649.379	560.080	526.160	494.347	472.755	473.859
144.5	851.285	821.685	748.574	653.635	565.401	531.217	499.721	478.180	479.337
145.0	853.939	823.501	750.766	657.473	570.668	536.484	504.988	483.448	485.027
145.5	854.067	825.317	754.539	661.783	575.935	541.805	510.254	488.873	490.294
146.0	855.668	826.499	756.677	665.621	580.730	547.073	515.416	494.140	495.720
146.5	858.591	828.895	759.450	668.351	585.997	552.340	520.631	499.512	501.145
147.0	859.773	830.077	762.115	672.134	591.264	557.607	526.056	504.831	506.622
147.5	862.008	832.527	764.362	674.918	596.059	562.982	531.271	510.204	511.889
148.0	862.028	832.762	767.081	678.175	601.326	568.196	536.538	515.576	517.420
148.5	862.210	834.052	768.746	682.486	606.120	572.936	541.859	520.949	522.794
149.0	863.811	836.448	771.465	686.269	611.442	577.731	547.073	526.215	528.271
149.5	864.627	835.630	773.131	689.053	616.182	583.052	552.340	531.324	533.539
150.0	865.121	837.919	775.850	693.417	620.923	588.319	557.607	536.592	539.333
150.5	866.829	839.208	779.150	696.728	625.663	593.114	562.875	542.386	544.600
151.0	866.904	840.497	779.816	700.565	630.458	597.854	567.669	547.599	550.341
151.5	868.666	840.787	783.061	703.822	635.252	603.121	572.936	552.920	555.662
152.0	868.794	841.603	784.254	707.660	640.047	607.916	578.204	558.134	561.402
152.5	868.341	842.892	786.500	710.444	644.787	612.657	583.525	563.401	566.723
153.0	868.470	843.128	788.746	714.281	649.055	617.451	588.212	568.142	571.990
153.5	870.178	844.471	790.412	717.592	651.742	622.191	593.533	573.936	577.258
154.0	869.253	845.287	791.605	721.429	657.010	627.513	598.273	579.150	583.106
154.5	870.434	845.576	792.690	724.213	660.697	631.726	603.541	584.417	588.427
155.0	871.562	846.339	794.828	726.997	663.911	636.574	608.335	589.158	593.640
155.5	871.217	846.155	796.333	730.361	667.652	641.261	613.602	594.425	598.961
156.0	869.711	846.972	797.310	733.091	672.392	646.110	618.397	599.692	604.175
156.5	870.893	847.842	798.395	736.456	676.133	648.743	623.137	604.906	608.915
157.0	871.440	847.551	800.007	739.294	680.401	653.538	627.878	609.646	614.237
157.5	869.020	847.894	801.092	741.497	684.088	657.751	633.199	614.914	619.504
158.0	869.180	846.657	802.339	744.281	687.829	661.965	637.940	620.181	624.771
158.5	867.770	847.000	803.058	746.592	692.043	665.179	642.154	624.922	629.512
159.0	866.318	847.343	804.305	749.376	695.784	669.393	645.314	629.662	634.779
159.5	867.715	847.633	805.024	752.214	698.944	674.134	651.688	634.929	639.520
160.0	865.994	847.342	805.798	754.471	703.212	677.875	654.322	639.670	644.787
160.5	864.757	846.997	807.098	756.255	706.426	682.142	659.116	644.411	649.582
161.0	865.197	847.071	807.872	758.566	709.060	685.830	662.804	648.098	654.795
161.5	864.175	845.146	809.118	760.823	713.274	690.043	666.018	652.838	659.009
162.0	863.476	844.328	807.838	763.134	715.907	693.784	670.758	657.579	661.008
162.5	861.497	843.038	809.665	763.865	720.175	698.052	674.446	661.266	665.641
163.0	860.937	843.908	809.439	766.703	722.862	702.266	679.767	664.953	669.694
163.5	859.958	842.198	809.740	767.907	726.549	705.480	683.454	669.694	674.381
164.0	860.247	842.176	810.513	769.691	729.183	708.640	687.141	673.908	678.541
164.5	858.538	840.520	810.287	770.894	732.397	712.327	691.935	678.702	684.227
165.0	856.881	840.444	810.588	772.679	735.558	716.541	696.149	682.389	688.441
165.5	854.172	837.734	810.415	774.409	738.772	719.229	699.309	686.076	692.128
166.0	854.150	836.712	810.135	776.193	741.405	722.389	703.050	690.817	697.288
166.5	852.967	835.637	810.490	777.978	743.512	726.130	707.211	695.031	702.029

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	851.676	834.561	809.790	777.709	746.200	728.764	711.478	698.772	706.242
167.5	849.385	832.540	809.618	779.020	748.361	731.924	714.112	703.566	709.930
168.0	845.730	830.991	809.446	780.331	750.994	735.138	718.379	707.780	714.197
168.5	845.181	829.754	809.273	781.697	753.628	738.299	722.647	712.048	718.357
169.0	841.999	827.937	808.047	780.901	756.315	741.459	725.227	715.208	721.991
169.5	840.396	825.969	807.875	782.685	757.842	743.566	729.441	719.949	725.097
170.0	838.794	823.947	807.176	782.997	759.422	746.780	732.655	723.109	729.311
170.5	837.245	823.033	805.477	783.835	761.056	749.414	735.342	726.850	733.052
171.0	834.009	821.119	805.885	784.200	762.109	752.048	738.030	730.537	736.266
171.5	831.461	819.205	803.606	784.566	764.797	753.682	741.244	734.332	740.480
172.0	830.074	816.818	803.541	785.404	766.957	756.315	744.404	736.439	743.533
172.5	827.579	814.485	801.842	785.243	768.484	758.949	747.565	740.653	747.693
173.0	824.085	812.571	800.251	785.135	769.591	761.583	750.725	743.813	749.746
173.5	822.225	810.184	799.767	786.081	770.591	762.636	753.359	746.447	753.487
174.0	820.257	808.324	797.649	785.974	771.118	765.270	755.466	749.661	757.120
174.5	817.182	804.938	796.165	785.866	772.751	767.903	758.046	752.821	758.701
175.0	814.107	802.604	794.681	784.759	774.332	769.484	760.153	755.401	761.807
175.5	811.086	800.379	793.251	785.812	775.331	770.483	762.840	758.088	763.914
176.0	810.279	798.207	791.875	785.759	776.439	772.644	765.420	760.776	768.182
176.5	805.893	795.089	790.553	785.286	776.912	773.697	768.634	763.463	769.816
177.0	803.614	793.133	788.285	785.286	777.019	775.278	769.161	766.043	772.449
177.5	800.227	790.176	787.650	784.232	778.019	775.804	771.795	768.150	773.976
178.0	797.056	788.381	786.543	784.232	778.546	777.385	773.321	771.364	778.244
178.5	793.680	785.113	784.963	783.705	778.546	778.965	774.901	773.418	780.823
179.0	791.412	784.006	782.856	783.705	779.072	779.491	777.589	775.524	781.877
179.5	789.251	781.953	781.803	782.652	779.072	780.545	778.642	777.158	786.144
180.0	781.061	781.061	781.061	781.061	781.061	781.061	781.061	781.061	781.061

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	289.99	N.A.	5.50
0-30	616.01	N.A.	11.70
0-40	1010.48	N.A.	19.20
0-60	1830.2	N.A.	34.70
0-80	2451.18	N.A.	46.50
0-90	2646.25	N.A.	50.20
10-90	2571.33	N.A.	48.80
20-40	720.49	N.A.	13.70
20-50	1138.75	N.A.	21.60
40-70	1168.74	N.A.	22.20
60-80	620.98	N.A.	11.80
70-80	271.96	N.A.	5.20
80-90	195.06	N.A.	3.70
90-110	465.27	N.A.	8.80
90-120	811.83	N.A.	15.40
90-130	1210.46	N.A.	23.00
90-150	2016.44	N.A.	38.20
90-180	2625.6	N.A.	49.80
110-180	2160.33	N.A.	41.00
0-180	5271.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.91
10-20	215.08
20-30	326.02
30-40	394.47
40-50	418.26
50-60	401.46
60-70	349.02
70-80	271.96
80-90	195.06
90-100	194.78
100-110	270.49
110-120	346.56
120-130	398.63
130-140	415.07
140-150	390.91
150-160	322.54
160-170	212.55
170-180	74.07

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	32
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	26
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	27	32	27	23	26	22	19	16
7	56	43	35	29	51	40	33	28	34	28	24	29	24	21	23	20	17	14
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	21	18	15	13
9	48	36	28	23	44	33	26	22	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	18	15	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-840U-L25-840D-DMA-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	19.6	20.5	20.5	21.5	22.7	13.6	14.5	14.5	15.5	16.7
	3H	22.7	23.5	23.6	24.5	25.8	14.9	15.8	15.9	16.7	18.0
	4H	24.3	25.0	25.2	26.0	27.3	15.4	16.2	16.3	17.1	18.4
	6H	26.0	26.7	26.9	27.7	29.0	15.6	16.3	16.6	17.3	18.6
	8H	26.9	27.6	27.9	28.6	29.9	15.7	16.4	16.6	17.4	18.7
	12H	27.9	28.5	28.9	29.5	30.9	15.7	16.3	16.7	17.3	18.7

UGR Viewed Endwise

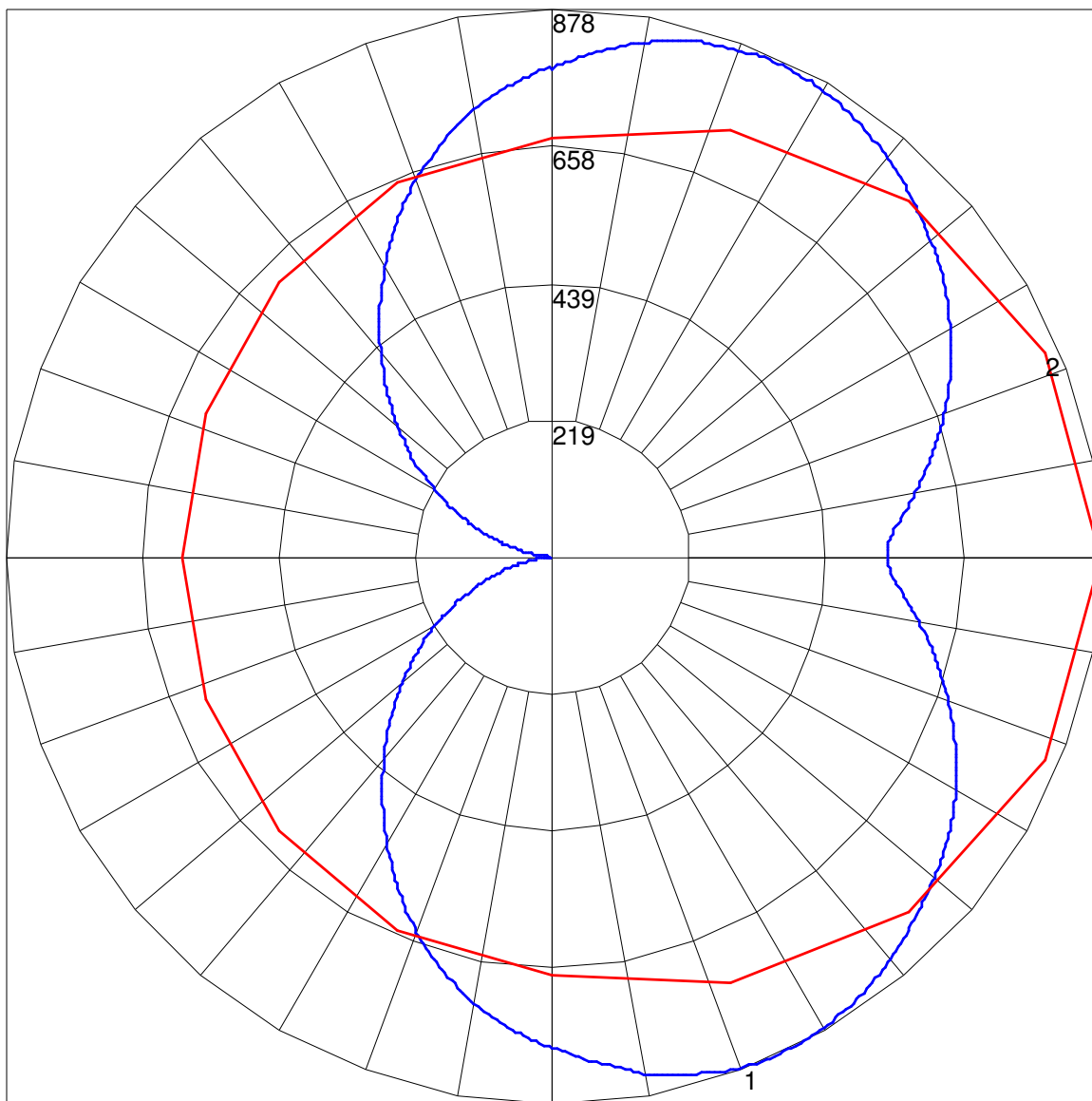
4H	2H	19.9	20.6	20.8	21.6	22.9	14.8	15.6	15.8	16.6	17.9
	3H	23.2	23.8	24.2	24.8	26.2	16.5	17.1	17.5	18.1	19.5
	4H	24.9	25.6	25.9	26.6	27.9	17.0	17.7	18.0	18.7	20.0
	6H	26.8	27.4	27.9	28.4	29.7	17.4	18.0	18.4	19.0	20.3
	8H	27.9	28.3	28.9	29.4	30.7	17.5	18.0	18.5	19.0	20.4
	12H	29.0	29.4	30.0	30.5	31.8	17.6	18.0	18.6	19.1	20.4

8H	4H	25.1	25.6	26.1	26.6	27.9	18.2	18.7	19.2	19.7	21.0
	6H	27.1	27.6	28.2	28.6	30.0	18.8	19.2	19.8	20.3	21.6
	8H	28.3	28.7	29.3	29.7	31.1	19.0	19.4	20.0	20.4	21.8
	12H	29.6	29.9	30.6	31.0	32.4	19.1	19.5	20.2	20.5	21.9

12H	4H	25.0	25.5	26.1	26.5	27.9	18.5	19.0	19.5	20.0	21.3
	6H	27.2	27.5	28.2	28.6	30.0	19.3	19.7	20.4	20.7	22.1
	8H	28.4	28.7	29.4	29.7	31.1	19.6	20.0	20.7	21.0	22.4

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 877.762 Located At Horizontal Angle = 0, Vertical Angle = 24.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (24.5) (Through Max. Cd.)