

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-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-L25-850U-L25-850D-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	5425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	11202	10607	10169
55	11136	10150	9328
65	11155	9798	8334
75	11349	9577	6876
85	11929	9795	4801

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	811.953	811.953	811.953	811.953	811.953	811.953	811.953	811.953	811.953
0.5	813.094	814.449	812.940	816.033	810.498	814.709	809.240	809.197	809.274
1.0	815.308	816.381	815.924	816.694	809.999	813.493	806.917	806.875	807.006
1.5	818.238	818.974	816.803	818.463	809.999	811.225	805.702	804.053	803.132
2.0	820.723	822.175	818.788	818.626	809.391	809.511	803.488	801.785	800.864
2.5	824.314	824.377	821.436	819.342	808.837	808.404	801.274	800.125	798.704
3.0	826.691	827.687	823.530	819.505	808.284	807.297	799.614	796.804	795.882
3.5	829.838	830.605	825.071	821.382	808.284	805.029	796.847	794.536	794.222
4.0	833.983	833.524	827.718	821.544	807.123	802.815	795.740	791.768	790.348
4.5	835.860	835.943	829.812	821.208	806.569	802.261	792.972	789.001	786.973
5.0	836.902	838.970	831.624	823.031	805.462	799.494	789.652	786.179	783.706
5.5	840.764	841.444	832.220	823.248	803.802	796.727	787.991	783.412	782.046
6.0	843.358	843.418	833.815	822.911	802.641	796.119	785.777	781.144	778.671
6.5	845.452	847.161	835.464	822.629	801.588	793.960	782.902	777.216	775.404
7.0	847.546	849.526	836.559	822.737	800.981	792.191	780.134	773.841	771.476
7.5	849.683	851.500	837.709	822.509	798.159	789.423	776.813	771.073	767.601
8.0	853.794	852.921	839.130	821.065	796.499	786.656	774.046	767.698	763.727
8.5	857.437	855.004	840.551	821.890	795.945	784.996	771.225	764.378	759.907
9.0	862.416	857.195	841.809	821.000	793.178	782.174	767.850	759.896	756.033
9.5	864.878	859.104	842.568	821.271	791.463	778.853	764.529	756.520	754.926
10.0	867.622	862.065	843.273	820.489	789.803	776.585	761.761	753.200	748.838
10.5	870.313	863.811	844.531	819.653	787.035	773.872	758.386	749.271	746.125
11.0	871.950	865.058	845.290	818.318	785.874	771.051	754.458	746.504	742.250
11.5	873.425	867.021	845.495	816.983	782.553	767.730	751.191	742.022	737.269
12.0	874.347	868.430	846.254	816.755	780.340	766.015	747.816	738.148	732.895
12.5	877.536	870.946	846.514	815.419	778.625	761.533	743.942	734.274	729.021
13.0	879.337	872.302	846.882	814.084	776.411	758.766	740.014	729.792	723.595
13.5	880.746	874.102	847.250	813.303	772.537	755.445	736.639	725.310	720.383
14.0	883.425	875.240	847.672	812.022	770.822	750.963	731.657	720.882	715.564
14.5	885.279	876.433	846.879	810.079	768.055	748.196	727.729	716.454	710.637
15.0	885.311	877.018	847.139	808.798	764.126	744.821	723.855	712.026	705.710
15.5	886.461	877.657	847.062	806.302	760.806	741.446	719.373	707.045	702.943
16.0	886.948	878.849	846.431	804.250	757.984	737.572	715.998	702.617	696.247
16.5	889.334	880.042	847.461	803.523	755.217	733.697	711.570	698.743	692.926
17.0	891.947	879.574	847.384	801.027	752.449	729.215	707.641	693.708	689.659
17.5	892.358	881.374	846.699	797.923	748.521	726.394	702.606	690.333	684.071
18.0	893.930	880.906	846.015	796.642	744.647	720.805	697.625	685.352	680.196
18.5	896.055	881.600	845.168	794.254	740.718	717.484	695.357	682.584	675.161
19.0	895.522	882.293	844.982	792.528	737.398	713.002	690.929	677.603	670.180
19.5	898.027	882.379	843.581	790.302	733.469	709.627	685.894	672.622	664.591
20.0	899.262	882.019	843.396	787.361	730.148	705.199	683.680	667.641	659.610
20.5	899.619	882.712	841.496	784.973	726.773	700.717	678.644	662.605	654.021
21.0	899.921	882.299	840.757	781.695	721.792	696.290	673.663	657.624	649.040
21.5	900.832	882.547	839.410	780.023	718.417	694.022	669.235	652.089	643.505
22.0	902.013	882.350	838.118	777.852	713.989	688.487	664.200	647.108	637.916
22.5	902.695	882.154	836.772	775.019	709.507	684.504	659.165	642.127	632.935
23.0	902.215	882.456	835.479	772.132	705.579	678.970	654.183	636.592	627.346
23.5	902.344	881.868	834.686	768.138	700.598	676.756	649.148	631.058	621.811
24.0	902.971	881.780	832.840	766.021	697.277	672.274	644.113	626.022	615.723
24.5	903.328	881.583	831.548	762.798	692.241	667.293	639.131	620.542	610.742
25.0	902.578	881.441	829.149	760.464	690.581	662.203	634.096	614.953	605.153
25.5	901.274	880.191	827.856	757.631	686.653	657.222	629.115	609.418	599.065
26.0	901.631	879.886	826.011	753.138	682.778	652.186	623.526	604.437	594.030
26.5	900.935	878.474	824.219	749.697	677.743	647.205	618.490	598.902	587.887

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	899.685	877.615	823.035	746.864	672.707	642.116	612.956	593.368	582.353
27.5	899.651	877.310	819.692	744.031	668.226	637.134	607.920	587.779	576.764
28.0	900.008	875.898	817.509	738.930	663.244	631.545	602.885	582.244	570.676
28.5	898.541	874.485	815.826	736.596	658.817	626.564	597.350	576.710	565.087
29.0	897.346	874.180	814.143	732.103	653.282	621.529	591.816	570.621	559.552
29.5	897.095	871.661	812.014	727.501	648.246	615.994	586.227	565.087	553.741
30.0	896.670	870.141	809.778	724.614	643.211	610.351	581.246	559.498	547.987
30.5	895.258	868.891	807.541	720.674	638.230	605.370	575.657	553.908	542.451
31.0	895.061	868.032	805.359	716.626	633.249	599.781	570.122	548.318	536.696
31.5	893.866	867.065	802.015	714.846	628.213	594.246	564.587	542.838	530.997
32.0	892.009	865.653	800.386	710.244	622.679	589.211	558.999	537.137	525.516
32.5	892.365	863.688	797.542	707.910	617.643	583.622	553.409	531.602	519.707
33.0	889.347	862.883	795.197	703.971	612.662	578.087	547.818	525.792	513.896
33.5	889.866	860.310	792.298	699.423	607.073	572.499	542.284	520.202	508.306
34.0	889.116	858.398	788.846	695.429	601.538	566.964	536.695	514.722	502.495
34.5	887.367	856.433	785.394	690.827	595.950	561.928	531.105	509.022	496.850
35.0	885.293	854.467	783.103	686.280	590.415	556.228	525.626	503.432	491.371
35.5	883.989	853.109	780.704	682.286	585.434	550.639	520.146	497.786	485.615
36.0	881.904	850.037	777.361	677.738	579.899	545.049	514.556	492.252	479.860
36.5	880.709	848.071	775.015	673.191	573.811	539.460	508.746	486.828	474.159
37.0	878.797	846.713	770.956	668.589	568.222	534.036	503.322	481.128	468.403
37.5	877.103	843.695	767.449	664.041	562.687	528.281	497.787	475.372	462.980
38.0	876.407	841.176	765.213	659.494	557.153	522.691	492.142	469.948	457.115
38.5	872.943	839.264	760.654	654.946	551.509	516.990	486.607	464.304	451.303
39.0	871.249	837.906	757.701	649.845	545.753	511.512	480.962	458.769	445.658
39.5	868.838	834.834	758.124	645.244	540.163	505.922	475.538	453.124	440.068
40.0	868.196	832.922	754.726	640.696	534.406	500.166	470.060	447.590	434.644
40.5	864.841	830.903	751.328	635.595	528.652	494.577	464.359	442.055	429.054
41.0	862.322	827.993	747.822	630.993	523.062	488.987	458.825	436.466	423.355
41.5	859.521	825.473	744.424	626.001	517.195	483.177	453.179	431.042	417.875
42.0	858.824	823.454	740.364	621.507	511.494	477.863	447.646	425.397	412.397
42.5	856.522	820.989	736.912	617.014	505.738	472.218	442.056	419.752	406.971
43.0	853.667	816.809	733.352	612.629	499.983	466.518	436.521	414.439	401.218
43.5	852.309	814.844	729.954	607.636	493.950	460.817	430.820	408.739	395.848
44.0	849.399	812.325	726.003	602.644	488.305	455.228	425.120	403.149	390.590
44.5	847.096	809.860	721.889	597.597	482.438	449.693	419.531	397.671	385.112
45.0	845.402	807.894	718.491	593.049	476.682	443.828	413.996	392.026	379.743
45.5	841.776	804.322	714.486	588.059	470.927	438.181	408.240	386.602	374.099
46.0	841.525	801.857	710.480	583.124	465.060	432.481	402.705	381.122	368.675
46.5	838.170	800.445	707.028	578.133	459.248	426.836	397.005	375.534	363.473
47.0	836.920	799.587	703.023	573.032	453.216	421.191	391.415	370.164	358.216
47.5	835.063	797.284	698.963	568.205	447.239	415.435	385.826	364.630	352.626
48.0	832.815	794.049	695.120	563.379	441.317	409.514	380.345	359.372	347.202
48.5	829.189	791.139	690.952	558.497	435.505	403.758	374.646	353.894	341.833
49.0	826.941	788.067	687.001	553.449	429.695	398.057	369.056	348.581	336.354
49.5	824.747	784.994	682.941	548.402	423.828	392.467	363.576	343.213	331.151
50.0	825.050	782.584	678.881	543.466	417.906	386.768	358.098	337.845	325.672
50.5	821.087	779.511	674.930	538.366	412.039	380.901	352.453	332.752	320.360
51.0	820.337	776.547	670.979	533.431	406.228	375.256	346.974	327.329	314.992
51.5	817.589	773.529	666.366	528.329	400.417	369.444	341.383	321.960	309.790
52.0	814.842	769.903	662.252	523.008	394.495	363.854	336.015	316.703	304.698
52.5	812.486	766.884	658.301	518.017	388.683	358.210	330.537	311.445	299.384
53.0	809.576	763.757	653.742	512.806	382.817	352.454	325.002	306.188	294.016
53.5	806.666	760.793	649.627	507.650	377.116	346.642	319.467	300.985	288.648
54.0	803.973	757.667	645.346	502.383	371.195	341.053	313.988	295.616	283.887
54.5	801.063	754.257	640.897	497.061	365.494	335.518	308.565	290.470	278.632

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	798.261	751.131	636.672	491.906	359.683	329.763	303.086	285.157	273.317
55.5	795.406	747.505	632.499	486.528	353.927	323.953	297.663	279.899	268.225
56.0	792.604	744.486	628.163	481.317	348.060	318.361	292.293	274.863	262.858
56.5	789.911	740.860	623.659	475.884	342.247	312.662	286.704	269.438	257.932
57.0	787.055	737.896	619.213	470.507	336.382	307.071	281.501	264.458	253.060
57.5	783.646	734.324	614.929	465.130	330.625	301.262	276.188	259.090	247.693
58.0	780.628	730.644	610.537	459.586	324.648	295.615	270.709	254.053	242.546
58.5	777.935	727.072	606.037	454.210	318.781	290.025	265.451	248.906	237.343
59.0	775.079	723.609	601.368	448.666	312.804	284.381	260.193	243.703	232.417
59.5	771.724	719.875	597.028	443.123	306.771	278.680	254.991	238.667	227.381
60.0	768.098	716.248	592.361	437.747	300.849	272.925	249.788	233.575	222.289
60.5	764.797	712.677	588.025	432.370	294.982	267.280	244.476	228.538	217.197
61.0	761.941	709.048	583.522	427.103	289.171	261.579	239.163	223.446	212.160
61.5	758.478	705.422	579.020	421.671	283.249	256.045	233.849	218.355	207.069
62.0	754.461	701.575	574.296	416.127	277.436	250.345	228.757	213.264	202.198
62.5	751.052	697.781	569.847	410.695	271.459	244.755	223.444	208.117	197.051
63.0	747.643	694.152	565.402	405.263	265.703	238.999	218.132	203.080	192.125
63.5	744.234	690.139	560.899	399.830	259.836	233.298	212.928	198.098	187.033
64.0	740.879	686.236	556.176	394.398	253.969	227.874	207.671	192.951	182.274
64.5	736.916	682.389	551.730	388.966	248.159	222.229	202.302	187.914	177.679
65.0	733.120	678.541	546.841	383.313	242.292	216.694	196.933	182.933	172.532
65.5	729.272	674.472	542.337	377.715	236.370	211.049	191.786	177.896	167.662
66.0	725.531	670.292	537.779	372.284	230.613	205.405	186.417	172.970	162.902
66.5	722.009	666.280	532.947	366.797	224.858	199.759	181.271	167.879	158.142
67.0	718.046	662.265	528.443	361.310	219.101	194.225	176.234	163.008	153.548
67.5	714.195	658.250	523.609	355.656	213.344	188.801	171.086	158.082	148.733
68.0	710.399	654.073	518.888	350.060	207.312	183.432	165.885	153.212	143.807
68.5	706.380	649.893	514.220	344.517	201.501	177.787	160.682	148.341	138.937
69.0	702.863	645.770	509.330	339.086	195.800	172.418	155.535	143.471	134.454
69.5	698.900	641.756	504.772	333.709	190.099	166.883	150.663	138.711	129.804
70.0	695.158	637.574	499.885	328.333	184.343	161.515	145.628	133.951	125.154
70.5	691.305	633.341	495.161	322.901	178.644	156.037	140.647	129.081	120.340
71.0	687.563	629.160	490.383	317.306	172.887	150.723	135.666	124.487	115.691
71.5	683.765	624.980	485.386	311.931	167.463	145.410	130.796	119.893	111.097
72.0	679.642	620.527	480.717	306.720	161.816	140.097	125.925	115.299	106.890
72.5	675.732	616.456	475.939	301.400	155.784	134.839	121.109	110.871	102.185
73.0	671.663	612.167	471.272	296.245	150.359	129.692	116.405	106.222	97.758
73.5	667.699	607.767	466.551	290.924	144.770	124.710	111.645	101.684	93.219
74.0	663.791	603.532	461.664	285.605	139.290	119.674	106.941	97.366	88.903
74.5	659.556	599.080	456.940	280.341	133.977	114.693	102.347	92.993	84.863
75.0	655.538	594.846	452.001	275.240	128.608	109.711	97.808	88.677	80.491
75.5	651.412	590.446	447.280	269.922	123.349	104.841	93.269	84.250	76.338
76.0	647.231	586.212	442.779	264.714	118.091	100.081	88.676	80.099	72.298
76.5	643.045	581.758	437.949	259.778	112.833	95.377	84.138	75.782	68.314
77.0	638.809	577.581	433.228	254.515	107.740	90.672	79.930	71.741	64.605
77.5	634.572	573.184	428.509	249.636	102.537	86.023	75.559	67.646	60.731
78.0	630.447	568.951	423.954	244.649	97.667	81.374	71.297	63.716	56.967
78.5	625.988	564.556	419.452	239.935	92.741	76.835	67.091	59.841	53.204
79.0	621.808	560.049	414.844	234.950	87.980	72.463	62.940	55.966	49.385
79.5	617.571	555.817	410.344	230.127	83.165	68.146	58.899	52.092	45.898
80.0	613.228	551.531	405.791	225.363	78.404	63.939	54.969	48.439	42.356
80.5	608.883	547.192	401.237	220.872	73.810	59.732	51.095	44.786	38.924
81.0	604.813	543.016	397.015	216.382	69.382	55.637	47.331	41.244	35.382
81.5	600.632	538.509	392.629	211.893	65.064	51.706	43.622	37.757	31.951
82.0	596.397	534.334	388.406	207.405	60.803	47.832	39.915	34.326	28.741
82.5	592.601	530.547	384.242	203.081	56.541	44.123	36.482	31.170	25.695

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	588.479	526.481	379.966	199.032	52.445	40.360	33.051	27.960	22.542
83.5	584.577	522.360	375.802	195.040	48.516	36.706	29.785	24.805	19.497
84.0	580.784	518.462	371.858	191.050	44.697	33.219	26.575	21.761	16.508
84.5	576.880	514.455	367.861	187.059	40.933	29.843	23.310	18.717	13.742
85.0	573.198	510.391	363.919	183.290	37.280	26.577	20.210	15.894	11.250
85.5	569.569	506.658	359.810	179.521	33.683	23.312	17.220	13.182	9.036
86.0	565.944	503.087	355.867	175.918	30.196	20.157	14.342	10.747	7.431
86.5	562.588	499.842	352.310	172.314	26.820	17.112	11.575	8.864	6.323
87.0	559.503	497.576	348.803	168.987	23.610	14.123	9.140	7.370	5.603
87.5	557.285	495.853	346.169	165.549	20.400	11.244	7.423	6.428	5.159
88.0	556.212	495.053	344.291	162.167	17.134	8.421	6.205	5.764	4.936
88.5	555.403	494.469	343.117	159.216	13.869	6.097	5.540	5.265	4.660
89.0	554.924	494.322	342.817	157.189	10.547	4.990	5.152	5.098	4.604
89.5	554.827	494.230	342.570	156.518	7.722	4.601	4.986	4.932	4.548
90.0	554.890	494.192	342.599	156.557	6.605	4.491	4.930	4.931	4.602
90.5	554.464	494.321	342.631	156.871	7.846	4.489	4.929	4.930	4.546
91.0	554.696	494.726	343.045	158.345	10.555	4.543	4.873	4.984	4.546
91.5	554.818	495.461	343.957	160.926	13.807	5.410	4.928	4.929	4.491
92.0	555.492	496.639	346.028	164.007	16.951	6.981	5.090	4.873	4.599
92.5	556.221	498.642	348.873	167.088	19.986	9.528	5.523	5.036	4.707
93.0	557.724	501.146	352.269	170.661	23.020	12.510	6.607	5.253	5.087
93.5	559.669	504.310	355.886	173.850	26.164	15.491	8.450	5.848	5.954
94.0	562.553	507.916	359.609	177.475	29.471	18.527	10.944	7.041	7.635
94.5	566.045	511.578	363.112	181.046	32.832	21.453	13.816	8.939	9.966
95.0	569.701	515.511	367.219	184.614	36.301	24.651	16.743	11.215	12.566
95.5	573.357	519.500	371.160	188.348	39.879	27.905	19.778	13.979	15.549
96.0	577.179	523.213	375.045	192.189	43.565	31.156	23.032	16.962	18.476
96.5	580.890	527.035	379.041	196.194	47.358	34.571	26.230	19.942	21.620
97.0	584.654	530.914	383.036	200.253	51.261	37.986	29.537	23.086	24.818
97.5	588.529	534.898	387.086	204.311	55.328	41.618	32.898	26.394	27.962
98.0	592.290	538.883	391.137	208.639	59.338	45.304	36.258	29.592	31.160
98.5	596.272	542.977	395.405	213.023	63.622	49.099	39.781	32.952	34.630
99.0	600.199	547.126	399.673	217.351	68.067	53.164	43.414	36.367	38.099
99.5	604.126	551.164	403.993	221.897	72.511	57.176	47.153	39.946	41.732
100.0	608.051	555.312	408.423	226.496	77.064	61.404	50.893	43.523	45.200
100.5	611.978	559.513	412.797	231.095	81.726	65.632	54.796	47.101	48.886
101.0	616.122	563.605	417.281	235.858	86.497	69.860	58.863	50.787	52.518
101.5	619.939	567.694	421.708	240.566	91.321	74.415	62.874	54.528	56.367
102.0	624.081	571.953	426.353	245.382	96.254	78.641	67.048	58.376	60.325
102.5	628.060	576.044	430.834	250.143	101.186	83.412	71.222	62.333	64.228
103.0	632.152	580.244	435.369	254.960	106.337	89.050	75.505	66.290	68.240
103.5	636.238	584.390	439.959	259.884	111.541	93.712	79.841	70.356	72.197
104.0	640.331	588.535	444.603	264.917	116.637	97.668	84.178	74.477	76.425
104.5	644.307	592.899	449.190	269.841	121.841	102.656	88.731	78.704	80.653
105.0	648.505	596.990	453.726	274.764	127.261	107.426	93.232	82.987	84.936
105.5	652.103	601.190	458.422	279.798	132.629	112.467	97.784	87.270	89.218
106.0	656.244	605.390	462.956	284.884	138.049	118.105	102.447	91.606	93.610
106.5	660.115	609.426	467.490	290.026	143.633	123.959	107.163	95.998	97.945
107.0	664.149	613.571	472.079	295.004	149.108	128.242	111.825	100.496	102.662
107.5	668.183	617.770	476.613	300.146	154.691	132.849	116.703	104.942	107.053
108.0	672.052	621.860	481.312	305.395	160.276	138.053	121.474	109.713	111.661
108.5	675.867	625.950	485.954	310.645	165.968	143.367	126.298	114.265	116.216
109.0	679.955	629.878	490.544	315.840	171.605	148.624	131.285	119.037	120.877
109.5	683.715	634.243	495.131	320.980	177.243	153.937	136.219	123.644	125.485
110.0	687.639	638.060	499.612	326.339	182.989	159.304	141.098	128.415	130.311
110.5	691.455	642.153	503.928	331.588	188.735	164.670	146.139	133.185	135.027

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	695.325	645.972	508.461	336.838	194.535	170.092	151.180	138.010	139.851
111.5	699.089	649.953	513.051	342.197	200.335	175.513	156.167	142.889	144.459
112.0	702.686	653.938	517.529	347.500	206.135	180.988	161.317	147.768	149.119
112.5	706.556	657.866	522.118	352.911	212.099	186.571	166.521	152.592	153.891
113.0	710.043	661.795	526.654	358.214	217.845	192.154	171.617	157.417	158.769
113.5	713.860	665.669	531.131	363.736	223.645	197.793	176.875	162.404	163.757
114.0	717.511	669.378	535.610	369.039	229.608	203.322	182.243	167.337	168.635
114.5	721.109	673.197	540.090	374.396	235.354	209.014	188.638	172.433	173.514
115.0	724.490	677.072	544.569	379.809	241.210	214.653	195.468	177.475	178.502
115.5	727.927	680.891	548.994	385.166	247.119	220.399	200.347	182.407	183.327
116.0	731.632	684.438	553.529	390.524	253.027	226.036	203.709	187.449	188.585
116.5	734.961	688.260	557.789	395.882	258.827	231.674	208.370	192.490	193.518
117.0	738.666	692.080	562.378	401.294	264.737	237.528	214.551	197.640	198.668
117.5	741.939	695.572	566.693	406.597	270.754	243.113	221.490	202.572	203.546
118.0	745.213	699.335	571.063	412.010	276.500	248.967	227.018	207.778	208.643
118.5	748.321	702.830	575.652	417.312	282.463	254.714	230.815	212.709	213.684
119.0	751.650	706.215	579.915	422.725	288.373	260.352	235.043	218.023	218.889
119.5	754.979	710.141	584.284	428.028	294.281	265.935	240.247	223.118	223.767
120.0	758.141	713.691	588.600	433.277	300.299	271.627	245.559	228.322	229.188
120.5	761.360	717.131	592.916	438.418	306.154	277.428	250.926	233.473	234.175
121.0	764.578	720.515	597.288	443.775	311.846	283.066	256.238	238.731	239.272
121.5	767.852	724.066	601.495	448.969	317.808	288.649	261.550	244.965	244.368
122.0	770.528	727.505	605.812	454.327	323.717	294.288	267.080	252.067	249.571
122.5	773.857	730.292	609.965	459.522	329.517	299.871	272.393	258.137	254.830
123.0	777.130	733.843	614.227	464.716	335.373	305.619	277.815	262.150	260.034
123.5	780.404	737.172	618.545	469.856	341.281	311.202	283.236	266.974	265.400
124.0	783.135	740.125	622.860	474.997	347.027	316.894	288.712	273.264	272.611
124.5	786.409	743.509	627.011	480.246	352.937	322.641	294.132	278.576	281.990
125.0	789.251	747.004	631.329	485.440	358.683	328.116	299.661	282.154	288.006
125.5	791.928	749.901	635.590	490.636	364.592	333.808	305.083	285.949	290.826
126.0	795.146	753.341	639.582	495.613	370.338	339.445	310.558	290.989	291.801
126.5	797.822	756.349	643.841	500.699	376.084	344.976	315.925	296.195	296.355
127.0	800.664	759.789	648.376	505.785	381.939	350.721	321.346	301.454	301.559
127.5	803.451	762.687	652.258	510.709	387.739	356.305	326.822	306.658	306.818
128.0	806.127	765.639	656.030	515.848	393.431	362.051	332.352	311.916	312.185
128.5	808.914	769.079	660.510	520.935	399.341	367.798	337.609	317.229	317.443
129.0	811.701	772.032	664.392	525.913	405.195	373.381	343.302	322.649	322.809
129.5	811.667	774.930	668.275	530.945	410.995	379.019	348.885	327.908	328.176
130.0	814.509	777.827	672.755	535.977	416.741	384.656	354.414	333.166	333.543
130.5	816.212	780.725	676.582	541.064	422.489	390.404	359.945	338.424	338.964
131.0	818.888	783.025	680.464	545.986	428.343	396.041	365.310	343.738	344.276
131.5	819.562	785.547	684.346	550.964	434.252	401.625	370.786	349.159	349.644
132.0	823.809	787.902	688.229	555.888	440.052	407.208	376.424	354.525	355.173
132.5	826.651	790.202	692.111	560.812	445.962	412.901	381.899	359.892	360.538
133.0	827.867	792.182	695.994	565.627	451.816	418.484	387.591	365.151	365.908
133.5	830.544	793.995	699.876	570.604	457.509	424.177	393.065	371.222	371.274
134.0	834.415	797.490	703.703	575.637	463.255	429.869	398.704	376.534	376.804
134.5	835.575	799.846	707.044	580.560	469.055	435.398	404.288	381.956	382.115
135.0	838.307	803.341	710.926	585.593	474.855	441.198	409.761	387.431	387.810
135.5	841.691	805.099	714.808	589.974	480.657	446.890	415.401	392.962	393.067
136.0	842.796	807.510	718.525	595.007	486.403	452.583	420.876	398.219	398.597
136.5	846.612	809.920	721.976	599.874	492.094	458.057	426.405	403.695	403.853
137.0	846.689	812.763	725.261	604.852	497.896	463.803	431.989	409.062	409.602
137.5	849.852	815.716	729.199	609.343	503.534	469.552	437.355	414.427	415.023
138.0	851.012	817.529	731.289	614.155	509.223	475.078	442.827	419.792	420.109
138.5	854.341	821.024	734.143	618.591	514.699	480.661	448.412	425.486	425.914

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	856.210	822.351	738.025	623.514	520.337	486.082	453.887	430.853	431.444
139.5	857.747	824.651	740.768	627.839	526.031	491.775	459.363	436.329	436.920
140.0	859.449	827.117	744.164	632.220	531.614	497.196	464.676	441.695	442.342
140.5	862.292	829.583	745.878	637.087	537.253	502.834	470.314	447.334	448.198
141.0	863.939	831.939	748.676	641.412	543.000	508.310	475.898	453.080	453.944
141.5	866.184	832.779	752.558	646.279	548.692	513.840	481.373	458.717	459.527
142.0	867.455	835.787	755.301	650.660	554.112	519.369	486.847	464.355	465.165
142.5	869.158	838.143	758.697	654.985	559.533	524.789	492.267	469.722	470.802
143.0	871.834	839.901	761.440	659.421	564.954	530.319	497.688	475.142	476.386
143.5	874.134	841.227	764.238	663.857	570.917	535.956	503.326	480.888	482.024
144.0	873.127	843.152	767.579	668.293	576.393	541.485	508.745	486.525	487.661
144.5	876.080	845.618	770.377	672.673	581.869	546.689	514.275	492.108	493.298
145.0	878.811	847.486	772.633	676.623	587.289	552.110	519.696	497.529	499.154
145.5	878.943	849.355	776.515	681.058	592.710	557.586	525.116	503.112	504.575
146.0	880.590	850.571	778.716	685.008	597.644	563.007	530.428	508.533	510.158
146.5	883.599	853.038	781.570	687.817	603.065	568.428	535.795	514.061	515.741
147.0	884.815	854.254	784.313	691.711	608.486	573.848	541.378	519.535	521.378
147.5	887.115	856.775	786.625	694.576	613.420	579.380	546.745	525.064	526.799
148.0	887.136	857.018	789.423	697.928	618.841	584.745	552.165	530.593	532.490
148.5	887.323	858.344	791.137	702.364	623.774	589.624	557.641	536.122	538.021
149.0	888.971	860.811	793.935	706.258	629.251	594.558	563.007	541.542	543.657
149.5	889.811	859.969	795.649	709.123	634.129	600.034	568.428	546.800	549.079
150.0	890.318	862.324	798.448	713.614	639.008	605.455	573.848	552.221	555.042
150.5	892.077	863.651	801.843	717.021	643.887	610.389	579.269	558.183	560.462
151.0	892.153	864.978	802.529	720.970	648.821	615.267	584.203	563.549	566.370
151.5	893.966	865.276	805.869	724.322	653.755	620.688	589.624	569.025	571.846
152.0	894.098	866.116	807.096	728.271	658.689	625.622	595.045	574.390	577.754
152.5	893.633	867.442	809.408	731.136	663.567	630.501	600.521	579.811	583.230
153.0	893.765	867.685	811.720	735.085	667.959	635.435	605.344	584.690	588.650
153.5	895.523	869.067	813.434	738.492	670.725	640.313	610.820	590.653	594.071
154.0	894.571	869.907	814.661	742.442	676.146	645.790	615.699	596.018	600.089
154.5	895.787	870.205	815.778	745.307	679.940	650.126	621.120	601.439	605.565
155.0	896.947	870.990	817.979	748.172	683.248	655.115	626.053	606.317	610.931
155.5	896.592	870.801	819.527	751.634	687.098	659.939	631.474	611.738	616.407
156.0	895.043	871.641	820.533	754.444	691.977	664.928	636.408	617.159	621.772
156.5	896.259	872.536	821.649	757.906	695.827	667.639	641.287	622.524	626.651
157.0	896.822	872.236	823.308	760.827	700.218	672.573	646.166	627.403	632.127
157.5	894.331	872.590	824.425	763.094	704.013	676.909	651.642	632.824	637.548
158.0	894.496	871.317	825.708	765.959	707.863	681.246	656.520	638.245	642.968
158.5	893.045	871.670	826.448	768.337	712.199	684.554	660.857	643.123	647.847
159.0	891.551	872.023	827.731	771.202	716.049	688.890	664.109	648.002	653.268
159.5	892.988	872.321	828.472	774.123	719.302	693.769	670.670	653.423	658.147
160.0	891.217	872.022	829.268	776.446	723.694	697.619	673.380	658.301	663.567
160.5	889.944	871.667	830.606	778.282	727.001	702.011	678.314	663.180	668.501
161.0	890.397	871.743	831.402	780.660	729.712	705.805	682.109	666.974	673.867
161.5	889.345	869.762	832.685	782.983	734.048	710.142	685.416	671.853	678.203
162.0	888.626	868.921	831.368	785.361	736.759	713.992	690.295	676.732	680.261
162.5	886.589	867.592	833.248	786.114	741.151	718.384	694.090	680.526	685.029
163.0	886.013	868.488	833.015	789.034	743.916	722.720	699.566	684.321	689.199
163.5	885.005	866.728	833.324	790.273	747.711	726.028	703.360	689.199	694.023
164.0	885.303	866.705	834.120	792.109	750.421	729.280	707.155	693.536	698.304
164.5	883.544	865.001	833.888	793.348	753.729	733.075	712.089	698.470	704.156
165.0	881.839	864.923	834.197	795.184	756.982	737.412	716.425	702.265	708.493
165.5	879.051	862.134	834.019	796.965	760.289	740.177	719.678	706.059	712.287
166.0	879.028	861.082	833.731	798.801	763.000	743.430	723.528	710.938	717.597
166.5	877.810	859.976	834.096	800.637	765.168	747.280	727.809	715.274	722.476

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	876.482	858.869	833.377	800.361	767.934	749.990	732.201	719.124	726.813
167.5	874.125	856.788	833.199	801.710	770.157	753.242	734.911	724.058	730.607
168.0	870.363	855.195	833.022	803.059	772.868	756.550	739.303	728.395	734.999
168.5	869.798	853.922	832.844	804.464	775.578	759.803	743.695	732.787	739.280
169.0	866.523	852.051	831.583	803.645	778.344	763.055	746.350	736.039	743.019
169.5	864.874	850.026	831.405	805.482	779.915	765.223	750.687	740.918	746.217
170.0	863.225	847.946	830.686	805.802	781.541	768.531	753.995	744.170	750.553
170.5	861.631	847.005	828.937	806.665	783.222	771.241	756.760	748.020	754.403
171.0	858.301	845.035	829.357	807.041	784.307	773.952	759.526	751.815	757.711
171.5	855.678	843.066	827.012	807.417	787.072	775.634	762.834	755.720	762.047
172.0	854.250	840.609	826.945	808.280	789.296	778.344	766.086	757.888	765.189
172.5	851.683	838.208	825.197	808.114	790.867	781.054	769.339	762.225	769.471
173.0	848.087	836.238	823.559	808.003	792.006	783.765	772.591	765.477	771.583
173.5	846.173	833.782	823.061	808.977	793.035	784.849	775.301	768.188	775.433
174.0	844.148	831.868	820.881	808.866	793.577	787.559	777.470	771.495	779.172
174.5	840.984	828.382	819.354	808.755	795.259	790.269	780.125	774.748	780.799
175.0	837.819	825.981	817.827	807.616	796.885	791.896	782.293	777.403	783.996
175.5	834.710	823.691	816.356	808.700	797.914	792.924	785.059	780.169	786.164
176.0	833.880	821.456	814.940	808.645	799.053	795.148	787.714	782.934	790.556
176.5	829.366	818.247	813.579	808.158	799.540	796.232	791.022	785.700	792.238
177.0	827.020	816.234	811.244	808.158	799.651	797.859	791.564	788.355	794.948
177.5	823.535	813.191	810.592	807.074	800.680	798.401	794.274	790.523	796.519
178.0	820.271	811.344	809.452	807.074	801.222	800.027	795.845	793.831	800.911
178.5	816.797	807.981	807.826	806.532	801.222	801.653	797.471	795.944	803.566
179.0	814.463	806.841	805.658	806.532	801.764	802.195	800.237	798.112	804.650
179.5	812.239	804.728	804.573	805.448	801.764	803.279	801.321	799.794	809.042
180.0	803.810	803.810	803.810	803.810	803.810	803.810	803.810	803.810	803.810

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	298.43	N.A.	5.50
0-30	633.95	N.A.	11.70
0-40	1039.91	N.A.	19.20
0-60	1883.51	N.A.	34.70
0-80	2522.58	N.A.	46.50
0-90	2723.32	N.A.	50.20
10-90	2646.23	N.A.	48.80
20-40	741.47	N.A.	13.70
20-50	1171.92	N.A.	21.60
40-70	1202.78	N.A.	22.20
60-80	639.07	N.A.	11.80
70-80	279.89	N.A.	5.20
80-90	200.75	N.A.	3.70
90-110	478.83	N.A.	8.80
90-120	835.48	N.A.	15.40
90-130	1245.72	N.A.	23.00
90-150	2075.17	N.A.	38.20
90-180	2702.08	N.A.	49.80
110-180	2223.25	N.A.	41.00
0-180	5425.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.09
10-20	221.34
20-30	335.52
30-40	405.96
40-50	430.44
50-60	413.16
60-70	359.18
70-80	279.89
80-90	200.75
90-100	200.45
100-110	278.37
110-120	356.65
120-130	410.24
130-140	427.16
140-150	402.30
150-160	331.94
160-170	218.74
170-180	76.23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-850U-L25-850D-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	45	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-L25-850U-L25-850D-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

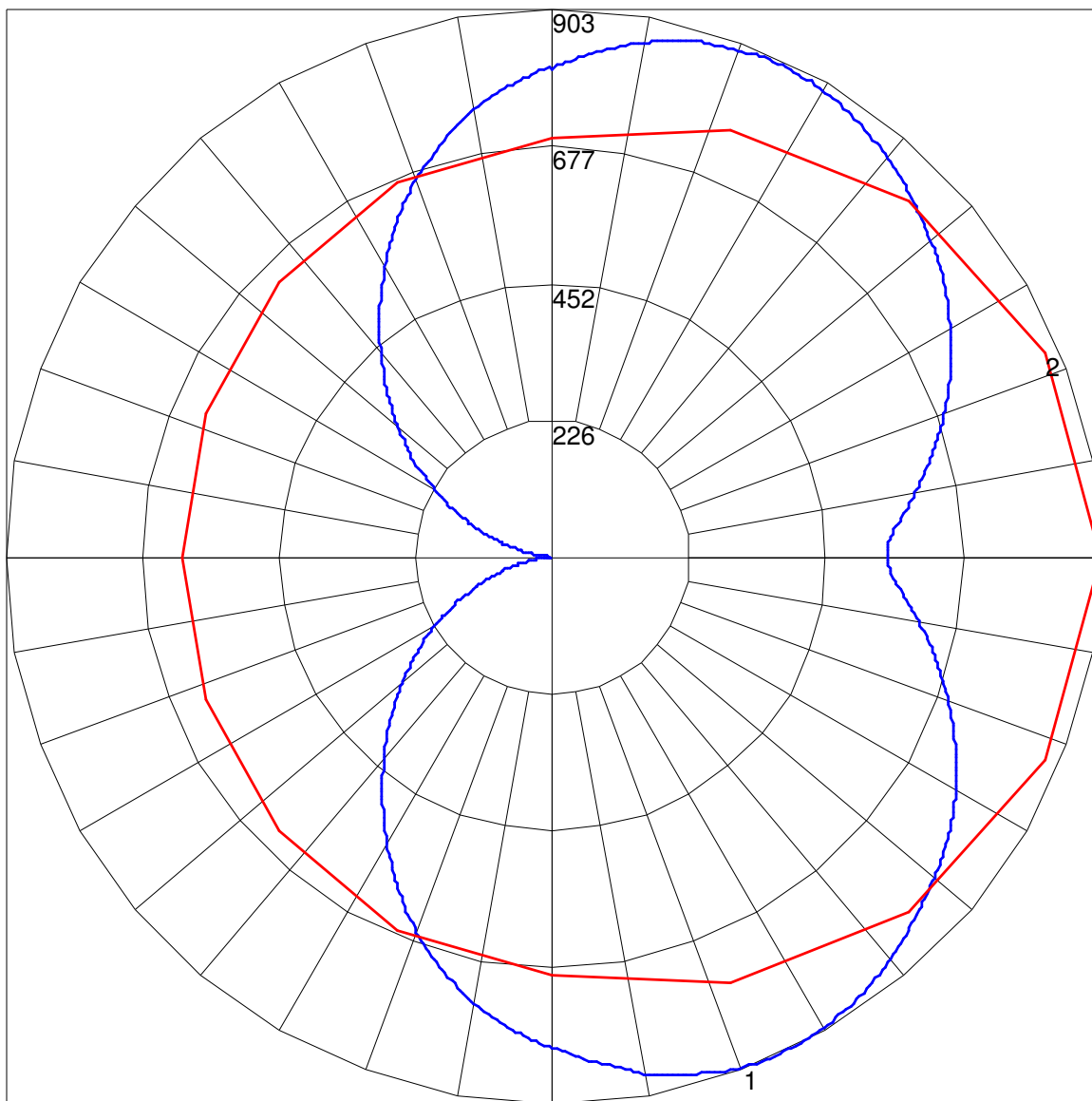
X=2H	Y=2H	19.7	20.6	20.6	21.6	22.8	13.7	14.6	14.6	15.6	16.8
	3H	22.8	23.6	23.7	24.6	25.9	15.0	15.9	16.0	16.8	18.1
	4H	24.4	25.1	25.3	26.1	27.4	15.5	16.3	16.4	17.2	18.5
	6H	26.1	26.8	27.0	27.8	29.1	15.7	16.4	16.7	17.4	18.7
	8H	27.0	27.7	27.9	28.7	30.0	15.8	16.5	16.7	17.5	18.8
	12H	28.0	28.6	29.0	29.6	31.0	15.8	16.4	16.8	17.4	18.8

UGR Viewed Endwise

4H	2H	20.0	20.7	20.9	21.7	23.0	14.9	15.7	15.9	16.7	18.0
	3H	23.3	23.9	24.3	24.9	26.3	16.6	17.2	17.6	18.2	19.6
	4H	25.0	25.7	26.0	26.7	28.0	17.1	17.8	18.1	18.8	20.1
	6H	26.9	27.5	28.0	28.5	29.8	17.5	18.1	18.5	19.1	20.4
	8H	28.0	28.4	29.0	29.5	30.8	17.6	18.1	18.6	19.1	20.5
	12H	29.1	29.5	30.1	30.6	31.9	17.7	18.1	18.7	19.2	20.5
8H	4H	25.2	25.7	26.2	26.7	28.0	18.3	18.8	19.3	19.8	21.1
	6H	27.2	27.7	28.3	28.7	30.1	18.9	19.3	19.9	20.4	21.7
	8H	28.4	28.8	29.4	29.8	31.2	19.1	19.5	20.1	20.5	21.9
	12H	29.7	30.0	30.7	31.1	32.5	19.2	19.6	20.3	20.6	22.0
12H	4H	25.1	25.6	26.2	26.6	28.0	18.6	19.1	19.6	20.1	21.4
	6H	27.3	27.6	28.3	28.7	30.1	19.4	19.8	20.5	20.8	22.2
	8H	28.5	28.8	29.5	29.8	31.2	19.7	20.1	20.8	21.1	22.5

Maximum UGR = 32.5

POLAR GRAPH



Maximum Candela = 903.328 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.)