

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-835U-L25-835D-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-L25-835U-L25-835D-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	5118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	10568	10007	9593
55	10505	9576	8800
65	10523	9244	7862
75	10706	9035	6487
85	11254	9241	4530

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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	765.993	765.993	765.993	765.993	765.993	765.993	765.993	765.993	765.993
0.5	767.070	768.348	766.924	769.842	764.621	768.593	763.434	763.393	763.466
1.0	769.158	770.170	769.740	770.466	764.150	767.447	761.243	761.202	761.326
1.5	771.922	772.617	770.569	772.135	764.150	765.307	760.096	758.541	757.671
2.0	774.267	775.637	772.442	772.289	763.576	763.689	758.008	756.401	755.532
2.5	777.655	777.715	774.940	772.964	763.054	762.645	755.919	754.835	753.494
3.0	779.897	780.837	776.915	773.117	762.532	761.601	754.353	751.702	750.832
3.5	782.866	783.590	778.369	774.889	762.532	759.461	751.742	749.562	749.266
4.0	786.777	786.343	780.866	775.042	761.437	757.373	750.698	746.951	745.611
4.5	788.548	788.626	782.842	774.724	760.914	756.851	748.087	744.341	742.427
5.0	789.530	791.481	784.551	776.444	759.870	754.240	744.954	741.679	739.345
5.5	793.174	793.815	785.113	776.649	758.304	751.629	743.388	739.068	737.779
6.0	795.621	795.677	786.618	776.331	757.208	751.056	741.299	736.928	734.595
6.5	797.596	799.208	788.174	776.065	756.215	749.018	738.586	733.222	731.513
7.0	799.572	801.440	789.207	776.167	755.642	747.350	735.976	730.038	727.807
7.5	801.588	803.302	790.292	775.952	752.980	744.739	732.843	727.428	724.152
8.0	805.466	804.643	791.632	774.590	751.414	742.128	730.232	724.244	720.497
8.5	808.903	806.607	792.972	775.368	750.892	740.562	727.570	721.111	716.893
9.0	813.600	808.674	794.159	774.528	748.281	737.900	724.386	716.883	713.238
9.5	815.923	810.475	794.875	774.784	746.663	734.767	721.254	713.699	712.194
10.0	818.512	813.269	795.540	774.046	745.097	732.628	718.643	710.566	706.451
10.5	821.050	814.916	796.727	773.258	742.486	730.068	715.459	706.860	703.891
11.0	822.595	816.092	797.443	771.998	741.391	727.406	711.753	704.249	700.236
11.5	823.986	817.944	797.637	770.738	738.258	724.273	708.671	700.021	695.537
12.0	824.856	819.274	798.353	770.523	736.169	722.656	705.487	696.366	691.411
12.5	827.865	821.648	798.598	769.264	734.552	718.428	701.832	692.711	687.756
13.0	829.563	822.926	798.945	768.004	732.463	715.817	698.126	688.483	682.637
13.5	830.893	824.624	799.292	767.266	728.808	712.684	694.942	684.254	679.606
14.0	833.420	825.698	799.691	766.058	727.191	708.456	690.243	680.077	675.060
14.5	835.169	826.823	798.942	764.225	724.580	705.845	686.537	675.900	670.412
15.0	835.199	827.375	799.187	763.017	720.874	702.661	682.882	671.723	665.764
15.5	836.284	827.978	799.115	760.662	717.741	699.477	678.654	667.024	663.154
16.0	836.744	829.103	798.520	758.727	715.079	695.822	675.470	662.847	656.837
16.5	838.994	830.228	799.492	758.040	712.469	692.167	671.292	659.192	653.704
17.0	841.459	829.787	799.419	755.685	709.858	687.939	667.586	654.441	650.622
17.5	841.847	831.485	798.773	752.757	706.152	685.277	662.836	651.257	645.350
18.0	843.330	831.044	798.127	751.549	702.497	680.005	658.137	646.558	641.695
18.5	845.335	831.698	797.328	749.296	698.791	676.872	655.997	643.947	636.944
19.0	844.832	832.352	797.153	747.668	695.658	672.644	651.820	639.248	632.245
19.5	847.195	832.433	795.831	745.568	691.952	669.460	647.069	634.549	626.972
20.0	848.361	832.093	795.657	742.793	688.819	665.282	644.981	629.850	622.273
20.5	848.697	832.748	793.864	740.541	685.635	661.054	640.231	625.099	617.001
21.0	848.982	832.357	793.167	737.448	680.936	656.877	635.531	620.400	612.302
21.5	849.841	832.592	791.897	735.871	677.752	654.737	631.354	615.179	607.080
22.0	850.955	832.406	790.678	733.823	673.575	649.516	626.604	610.479	601.808
22.5	851.599	832.220	789.407	731.150	669.346	645.759	621.853	605.780	597.108
23.0	851.147	832.506	788.188	728.427	665.640	640.537	617.154	600.559	591.836
23.5	851.268	831.951	787.440	724.659	660.941	638.449	612.404	595.337	586.615
24.0	851.860	831.868	785.698	722.662	657.808	634.221	607.653	590.587	580.871
24.5	852.196	831.682	784.479	719.620	653.058	629.521	602.954	585.417	576.172
25.0	851.489	831.548	782.216	717.419	651.491	624.720	598.204	580.144	570.899
25.5	850.259	830.369	780.997	714.746	647.785	620.021	593.505	574.923	565.156
26.0	850.595	830.081	779.255	710.507	644.130	615.270	588.232	570.224	560.405
26.5	849.938	828.749	777.565	707.261	639.380	610.571	583.482	565.002	554.611

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CANDELA TABULATION - (Cont.)

27.0	848.760	827.939	776.448	704.589	634.630	605.769	578.260	559.781	549.389
27.5	848.727	827.651	773.294	701.916	630.401	601.070	573.510	554.508	544.117
28.0	849.064	826.318	771.235	697.104	625.702	595.798	568.760	549.287	538.373
28.5	847.681	824.986	769.647	694.902	621.525	591.098	563.538	544.066	533.101
29.0	846.553	824.698	768.059	690.663	616.304	586.348	558.317	538.322	527.879
29.5	846.316	822.322	766.051	686.322	611.553	581.127	553.044	533.101	522.397
30.0	845.915	820.887	763.941	683.598	606.803	575.803	548.345	527.828	516.969
30.5	844.583	819.708	761.831	679.881	602.104	571.104	543.072	522.554	511.746
31.0	844.397	818.899	759.772	676.062	597.404	565.831	537.851	517.281	506.317
31.5	843.270	817.986	756.618	674.383	592.654	560.610	532.630	512.112	500.940
32.0	841.518	816.654	755.081	670.042	587.433	555.859	527.357	506.733	495.770
32.5	841.854	814.799	752.398	667.840	582.682	550.587	522.083	501.511	490.290
33.0	839.006	814.041	750.186	664.123	577.983	545.365	516.810	496.030	484.807
33.5	839.496	811.613	747.451	659.833	572.711	540.093	511.589	490.756	479.534
34.0	838.789	809.810	744.194	656.065	567.489	534.872	506.316	485.587	474.052
34.5	837.139	807.955	740.938	651.724	562.217	530.121	501.042	480.209	468.726
35.0	835.182	806.101	738.777	647.434	556.995	524.743	495.873	474.935	463.557
35.5	833.952	804.820	736.513	643.666	552.296	519.471	490.704	469.610	458.127
36.0	831.985	801.921	733.359	639.376	547.075	514.197	485.430	464.388	452.698
36.5	830.857	800.067	731.147	635.086	541.331	508.925	479.949	459.271	447.320
37.0	829.054	798.786	727.317	630.744	536.059	503.808	474.832	453.894	441.889
37.5	827.455	795.938	724.009	626.454	530.837	498.378	469.611	448.464	436.774
38.0	826.799	793.562	721.899	622.164	525.616	493.105	464.285	443.347	431.240
38.5	823.531	791.759	717.598	617.874	520.291	487.727	459.064	438.022	425.758
39.0	821.933	790.478	714.813	613.062	514.861	482.559	453.738	432.801	420.432
39.5	819.659	787.579	715.211	608.720	509.587	477.285	448.621	427.475	415.158
40.0	819.053	785.776	712.005	604.430	504.157	471.855	443.453	422.255	410.041
40.5	815.888	783.870	708.800	599.618	498.728	466.582	438.075	417.033	404.768
41.0	813.511	781.125	705.492	595.277	493.454	461.309	432.853	411.760	399.392
41.5	810.868	778.749	702.287	590.567	487.920	455.827	427.527	406.643	394.221
42.0	810.212	776.843	698.457	586.328	482.541	450.814	422.307	401.318	389.053
42.5	808.040	774.518	695.200	582.089	477.111	445.489	417.034	395.993	383.935
43.0	805.346	770.575	691.841	577.952	471.682	440.111	411.812	390.980	378.507
43.5	804.065	768.721	688.636	573.242	465.991	434.733	406.434	385.603	373.442
44.0	801.319	766.344	684.908	568.532	460.665	429.461	401.056	380.329	368.481
44.5	799.148	764.019	681.027	563.771	455.130	424.239	395.784	375.161	363.313
45.0	797.549	762.164	677.822	559.481	449.700	418.705	390.562	369.836	358.248
45.5	794.128	758.795	674.043	554.773	444.271	413.379	385.132	364.719	352.924
46.0	793.891	756.469	670.264	550.117	438.736	408.001	379.911	359.549	347.807
46.5	790.726	755.137	667.008	545.408	433.253	402.676	374.533	354.277	342.899
47.0	789.548	754.327	663.229	540.596	427.563	397.350	369.259	349.211	337.939
47.5	787.795	752.155	659.399	536.043	421.923	391.920	363.986	343.991	332.666
48.0	785.675	749.103	655.774	531.489	416.337	386.334	358.816	339.030	327.549
48.5	782.254	746.358	651.842	526.884	410.854	380.904	353.439	333.862	322.484
49.0	780.133	743.459	648.114	522.121	405.373	375.526	348.166	328.850	317.315
49.5	778.063	740.561	644.284	517.360	399.838	370.252	342.997	323.786	312.407
50.0	778.349	738.286	640.454	512.704	394.251	364.875	337.828	318.721	307.238
50.5	774.610	735.388	636.727	507.892	388.716	359.341	332.503	313.917	302.226
51.0	773.903	732.591	632.999	503.237	383.234	354.015	327.334	308.801	297.163
51.5	771.311	729.744	628.647	498.423	377.752	348.532	322.060	303.736	292.254
52.0	768.719	726.323	624.766	493.403	372.165	343.259	316.995	298.777	287.451
52.5	766.496	723.476	621.038	488.696	366.682	337.934	311.827	293.817	282.438
53.0	763.751	720.526	616.737	483.779	361.148	332.504	306.606	288.856	277.373
53.5	761.005	717.730	612.855	478.916	355.770	327.021	301.384	283.948	272.310
54.0	758.465	714.780	608.817	473.947	350.184	321.748	296.215	278.883	267.818
54.5	755.720	711.563	604.620	468.925	344.806	316.526	291.099	274.029	262.860

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CANDELA TABULATION - (Cont.)

55.0	753.077	708.614	600.634	464.062	339.323	311.097	285.930	269.016	257.846
55.5	750.383	705.193	596.697	458.989	333.893	305.616	280.814	264.056	253.043
56.0	747.740	702.346	592.606	454.073	328.358	300.341	275.748	259.304	247.979
56.5	745.199	698.925	588.358	448.947	322.875	294.964	270.476	254.187	243.332
57.0	742.505	696.128	584.163	443.874	317.341	289.689	265.567	249.489	238.736
57.5	739.289	692.759	580.121	438.802	311.910	284.209	260.555	244.424	233.673
58.0	736.441	689.287	575.978	433.572	306.272	278.882	255.386	239.673	228.817
58.5	733.901	685.917	571.733	428.500	300.737	273.609	250.426	234.817	223.909
59.0	731.207	682.650	567.328	423.270	295.098	268.284	245.465	229.909	219.262
59.5	728.041	679.127	563.234	418.041	289.407	262.906	240.557	225.157	214.510
60.0	724.621	675.706	558.831	412.969	283.820	257.477	235.649	220.354	209.706
60.5	721.507	672.336	554.740	407.896	278.285	252.151	230.638	215.602	204.903
61.0	718.813	668.913	550.493	402.927	272.803	246.773	225.625	210.799	200.151
61.5	715.545	665.493	546.245	397.803	267.216	241.552	220.613	205.995	195.348
62.0	711.756	661.863	541.789	392.573	261.733	236.174	215.809	201.192	190.753
62.5	708.540	658.284	537.591	387.448	256.093	230.901	210.797	196.337	185.897
63.0	705.323	654.861	533.398	382.324	250.663	225.471	205.785	191.585	181.250
63.5	702.107	651.074	529.150	377.198	245.129	220.093	200.876	186.885	176.446
64.0	698.942	647.393	524.694	372.074	239.594	214.976	195.916	182.029	171.957
64.5	695.204	643.763	520.500	366.949	234.112	209.650	190.851	177.277	167.622
65.0	691.623	640.133	515.888	361.616	228.578	204.429	185.786	172.578	162.766
65.5	687.992	636.295	511.639	356.335	222.991	199.103	180.930	167.827	158.171
66.0	684.463	632.351	507.339	351.212	217.560	193.778	175.865	163.180	153.681
66.5	681.140	628.566	502.780	346.035	212.130	188.452	171.011	158.376	149.191
67.0	677.402	624.778	498.532	340.858	206.699	183.231	166.258	153.781	144.857
67.5	673.769	620.991	493.971	335.525	201.268	178.114	161.402	149.134	140.314
68.0	670.187	617.050	489.517	330.245	195.577	173.049	156.495	144.539	135.667
68.5	666.397	613.106	485.113	325.016	190.095	167.723	151.587	139.945	131.072
69.0	663.078	609.217	480.500	319.892	184.717	162.659	146.731	135.350	126.843
69.5	659.340	605.430	476.200	314.820	179.339	157.437	142.135	130.859	122.457
70.0	655.809	601.485	471.589	309.748	173.909	152.372	137.385	126.369	118.070
70.5	652.174	597.491	467.133	304.623	168.532	147.204	132.686	121.774	113.529
71.0	648.645	593.547	462.625	299.346	163.101	142.192	127.986	117.440	109.143
71.5	645.061	589.603	457.911	294.274	157.984	137.179	123.393	113.106	104.809
72.0	641.171	585.403	453.507	289.359	152.657	132.167	118.797	108.773	100.840
72.5	637.483	581.562	448.999	284.340	146.966	127.206	114.254	104.596	96.401
73.0	633.644	577.516	444.596	279.476	141.848	122.350	109.816	100.210	92.224
73.5	629.905	573.365	440.143	274.456	136.576	117.651	105.326	95.928	87.943
74.0	626.218	569.370	435.532	269.438	131.406	112.900	100.887	91.854	83.871
74.5	622.223	565.170	431.076	264.473	126.393	108.201	96.554	87.730	80.059
75.0	618.432	561.175	426.416	259.661	121.328	103.501	92.272	83.658	75.935
75.5	614.539	557.024	421.962	254.644	116.367	98.906	87.990	79.481	72.017
76.0	610.595	553.030	417.716	249.730	111.407	94.416	83.657	75.565	68.206
76.5	606.646	548.828	413.159	245.073	106.446	89.978	79.375	71.492	64.448
77.0	602.650	544.888	408.706	240.109	101.642	85.540	75.406	67.680	60.948
77.5	598.653	540.739	404.254	235.505	96.734	81.154	71.282	63.817	57.293
78.0	594.761	536.746	399.956	230.801	92.139	76.768	67.262	60.109	53.743
78.5	590.555	532.600	395.710	226.354	87.492	72.486	63.294	56.453	50.192
79.0	586.612	528.348	391.362	221.650	83.000	68.361	59.377	52.798	46.589
79.5	582.615	524.356	387.117	217.101	78.458	64.289	55.565	49.144	43.300
80.0	578.517	520.312	382.822	212.607	73.966	60.319	51.858	45.697	39.958
80.5	574.418	516.219	378.526	208.370	69.632	56.351	48.203	42.251	36.721
81.0	570.578	512.279	374.542	204.134	65.454	52.487	44.652	38.910	33.379
81.5	566.634	508.027	370.404	199.899	61.382	48.779	41.153	35.620	30.142
82.0	562.639	504.089	366.421	195.665	57.361	45.124	37.655	32.383	27.115
82.5	559.057	500.516	362.492	191.586	53.341	41.626	34.417	29.406	24.241

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CANDELA TABULATION - (Cont.)

83.0	555.169	496.680	358.459	187.767	49.477	38.075	31.180	26.377	21.266
83.5	551.488	492.793	354.530	184.000	45.770	34.628	28.099	23.401	18.394
84.0	547.909	489.115	350.810	180.236	42.167	31.339	25.071	20.529	15.573
84.5	544.226	485.334	347.039	176.471	38.616	28.154	21.990	17.657	12.964
85.0	540.753	481.501	343.320	172.915	35.170	25.073	19.066	14.995	10.613
85.5	537.330	477.979	339.443	169.359	31.776	21.992	16.246	12.436	8.524
86.0	533.910	474.611	335.724	165.960	28.487	19.016	13.530	10.139	7.010
86.5	530.744	471.549	332.368	162.561	25.302	16.143	10.920	8.362	5.965
87.0	527.833	469.411	329.060	159.421	22.273	13.324	8.622	6.953	5.286
87.5	525.741	467.786	326.574	156.179	19.245	10.608	7.003	6.064	4.867
88.0	524.728	467.031	324.803	152.987	16.164	7.945	5.854	5.437	4.656
88.5	523.966	466.480	323.695	150.204	13.084	5.752	5.226	4.967	4.396
89.0	523.513	466.342	323.412	148.292	9.950	4.707	4.861	4.810	4.343
89.5	523.422	466.255	323.179	147.659	7.285	4.341	4.704	4.653	4.291
90.0	523.481	466.219	323.206	147.695	6.231	4.236	4.651	4.652	4.342
90.5	523.079	466.341	323.236	147.992	7.402	4.235	4.650	4.651	4.289
91.0	523.298	466.722	323.627	149.382	9.957	4.285	4.598	4.702	4.289
91.5	523.413	467.416	324.487	151.817	13.026	5.104	4.649	4.650	4.236
92.0	524.049	468.527	326.442	154.724	15.992	6.586	4.802	4.598	4.339
92.5	524.737	470.417	329.125	157.630	18.855	8.989	5.210	4.751	4.441
93.0	526.154	472.779	332.329	161.001	21.717	11.802	6.233	4.956	4.799
93.5	527.990	475.764	335.741	164.009	24.683	14.614	7.972	5.517	5.617
94.0	530.710	479.166	339.254	167.429	27.803	17.478	10.324	6.642	7.202
94.5	534.004	482.621	342.558	170.798	30.974	20.239	13.034	8.433	9.401
95.0	537.454	486.331	346.433	174.165	34.246	23.256	15.795	10.580	11.855
95.5	540.903	490.094	350.151	177.687	37.622	26.325	18.659	13.188	14.669
96.0	544.508	493.597	353.816	181.310	41.099	29.392	21.728	16.002	17.430
96.5	548.009	497.203	357.585	185.089	44.678	32.614	24.745	18.813	20.396
97.0	551.561	500.863	361.355	188.918	48.360	35.836	27.865	21.779	23.414
97.5	555.216	504.621	365.175	192.746	52.196	39.262	31.035	24.900	26.380
98.0	558.765	508.381	368.998	196.829	55.980	42.740	34.206	27.917	29.396
98.5	562.521	512.242	373.024	200.965	60.020	46.320	37.529	31.087	32.670
99.0	566.225	516.157	377.050	205.048	64.214	50.155	40.956	34.308	35.943
99.5	569.930	519.966	381.126	209.337	68.406	53.939	44.484	37.685	39.370
100.0	573.633	523.879	385.305	213.675	72.702	57.928	48.013	41.060	42.642
100.5	577.337	527.842	389.431	218.015	77.100	61.917	51.694	44.435	46.119
101.0	581.247	531.703	393.662	222.507	81.601	65.906	55.531	47.912	49.546
101.5	584.848	535.561	397.838	226.949	86.151	70.203	59.315	51.441	53.176
102.0	588.756	539.578	402.220	231.493	90.805	74.189	63.253	55.072	56.911
102.5	592.510	543.438	406.447	235.984	95.459	78.691	67.191	58.805	60.593
103.0	596.370	547.400	410.726	240.528	100.318	84.009	71.231	62.538	64.377
103.5	600.225	551.312	415.055	245.173	105.228	88.407	75.322	66.374	68.110
104.0	604.086	555.221	419.437	249.922	110.035	92.139	79.413	70.261	72.099
104.5	607.837	559.339	423.765	254.567	114.944	96.845	83.709	74.249	76.088
105.0	611.798	563.198	428.043	259.212	120.058	101.345	87.954	78.290	80.128
105.5	615.192	567.160	432.474	263.960	125.122	106.101	92.249	82.330	84.168
106.0	619.098	571.122	436.751	268.759	130.234	111.420	96.648	86.421	88.311
106.5	622.750	574.930	441.029	273.609	135.503	116.943	101.097	90.565	92.401
107.0	626.556	578.841	445.357	278.306	140.668	120.983	105.495	94.808	96.851
107.5	630.361	582.802	449.635	283.156	145.935	125.329	110.097	99.001	100.994
108.0	634.012	586.660	454.068	288.108	151.204	130.239	114.598	103.503	105.341
108.5	637.610	590.519	458.447	293.061	156.573	135.251	119.149	107.797	109.637
109.0	641.467	594.224	462.777	297.962	161.892	140.211	123.854	112.299	114.035
109.5	645.014	598.343	467.104	302.812	167.210	145.224	128.509	116.645	118.382
110.0	648.716	601.944	471.332	307.867	172.631	150.286	133.111	121.146	122.934
110.5	652.316	605.804	475.404	312.819	178.052	155.349	137.867	125.646	127.384

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CANDELA TABULATION - (Cont.)

111.0	655.967	609.407	479.680	317.772	183.524	160.464	142.623	130.198	131.935
111.5	659.518	613.164	484.011	322.827	188.995	165.578	147.328	134.801	136.282
112.0	662.912	616.922	488.235	327.830	194.467	170.743	152.186	139.404	140.679
112.5	666.562	620.628	492.564	332.935	200.094	176.010	157.095	143.955	145.180
113.0	669.852	624.335	496.843	337.938	205.514	181.278	161.903	148.506	149.782
113.5	673.453	627.990	501.067	343.147	210.986	186.597	166.863	153.211	154.487
114.0	676.897	631.488	505.292	348.150	216.612	191.814	171.927	157.865	159.090
114.5	680.291	635.091	509.519	353.204	222.032	197.183	177.960	162.673	163.692
115.0	683.481	638.747	513.745	358.310	227.556	202.503	184.404	167.429	168.398
115.5	686.723	642.351	517.919	363.365	233.131	207.923	189.006	172.082	172.950
116.0	690.219	645.697	522.197	368.419	238.705	213.242	192.178	176.838	177.910
116.5	693.359	649.302	526.216	373.474	244.177	218.560	196.576	181.594	182.564
117.0	696.855	652.906	530.545	378.579	249.752	224.083	202.407	186.452	187.423
117.5	699.943	656.200	534.616	383.582	255.428	229.352	208.953	191.106	192.024
118.0	703.031	659.750	538.739	388.689	260.849	234.875	214.168	196.017	196.833
118.5	705.963	663.048	543.068	393.691	266.474	240.297	217.750	200.669	201.589
119.0	709.103	666.240	547.089	398.797	272.050	245.615	221.738	205.682	206.499
119.5	712.244	669.944	551.211	403.800	277.624	250.882	226.648	210.489	211.101
120.0	715.228	673.294	555.283	408.752	283.301	256.252	231.660	215.398	216.215
120.5	718.264	676.539	559.355	413.602	288.824	261.725	236.722	220.258	220.920
121.0	721.300	679.731	563.479	418.656	294.194	267.043	241.734	225.218	225.728
121.5	724.388	683.081	567.448	423.555	299.819	272.311	246.745	231.099	230.536
122.0	726.913	686.326	571.521	428.611	305.393	277.630	251.963	237.799	235.445
122.5	730.053	688.955	575.438	433.512	310.865	282.898	256.974	243.526	240.405
123.0	733.142	692.304	579.459	438.411	316.389	288.319	262.089	247.311	245.315
123.5	736.230	695.445	583.533	443.261	321.964	293.587	267.203	251.863	250.377
124.0	738.807	698.231	587.604	448.110	327.384	298.956	272.369	257.796	257.180
124.5	741.895	701.423	591.520	453.062	332.959	304.378	277.483	262.808	266.028
125.0	744.577	704.721	595.594	457.962	338.380	309.543	282.700	266.183	271.704
125.5	747.101	707.454	599.613	462.864	343.954	314.913	287.815	269.763	274.364
126.0	750.138	710.699	603.379	467.559	349.375	320.231	292.979	274.518	275.284
126.5	752.662	713.537	607.397	472.358	354.796	325.449	298.042	279.429	279.580
127.0	755.344	716.782	611.675	477.156	360.320	330.869	303.156	284.390	284.489
127.5	757.973	719.516	615.338	481.801	365.792	336.137	308.322	289.300	289.451
128.0	760.497	722.301	618.896	486.649	371.161	341.557	313.540	294.260	294.514
128.5	763.127	725.546	623.122	491.448	376.737	346.979	318.499	299.273	299.474
129.0	765.756	728.332	626.785	496.144	382.260	352.247	323.870	304.386	304.537
129.5	765.723	731.066	630.448	500.892	387.732	357.565	329.137	309.347	309.600
130.0	768.405	733.799	634.674	505.639	393.152	362.883	334.353	314.308	314.664
130.5	770.011	736.533	638.285	510.437	398.574	368.305	339.570	319.268	319.777
131.0	772.536	738.703	641.947	515.081	404.097	373.624	344.632	324.281	324.789
131.5	773.172	741.082	645.610	519.778	409.671	378.891	349.798	329.395	329.853
132.0	777.178	743.304	649.273	524.423	415.143	384.158	355.117	334.458	335.069
132.5	779.860	745.474	652.935	529.068	420.719	389.529	360.282	339.520	340.130
133.0	781.007	747.341	656.598	533.610	426.241	394.796	365.651	344.482	345.196
133.5	783.532	749.052	660.261	538.306	431.612	400.167	370.816	350.209	350.259
134.0	787.184	752.349	663.871	543.054	437.033	405.537	376.136	355.221	355.476
134.5	788.279	754.571	667.022	547.698	442.505	410.753	381.403	360.336	360.486
135.0	790.856	757.869	670.685	552.446	447.977	416.225	386.567	365.501	365.858
135.5	794.048	759.527	674.348	556.579	453.450	421.594	391.888	370.719	370.817
136.0	795.091	761.802	677.854	561.327	458.870	426.965	397.053	375.678	376.035
136.5	798.691	764.076	681.109	565.919	464.240	432.129	402.269	380.844	380.993
137.0	798.763	766.757	684.208	570.615	469.713	437.550	407.536	385.908	386.417
137.5	801.747	769.543	687.923	574.852	475.033	442.974	412.599	390.969	391.531
138.0	802.842	771.254	689.895	579.392	480.399	448.187	417.761	396.030	396.329
138.5	805.982	774.551	692.587	583.577	485.565	453.454	423.031	401.402	401.806

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CANDELA TABULATION - (Cont.)

139.0	807.745	775.803	696.250	588.221	490.884	458.568	428.196	406.465	407.023
139.5	809.195	777.972	698.838	592.301	496.255	463.939	433.362	411.631	412.189
140.0	810.801	780.299	702.041	596.434	501.523	469.053	438.373	416.694	417.304
140.5	813.483	782.626	703.658	601.025	506.842	474.372	443.693	422.013	422.828
141.0	815.037	784.848	706.298	605.106	512.264	479.538	448.960	427.434	428.249
141.5	817.155	785.640	709.961	609.698	517.634	484.754	454.125	432.752	433.516
142.0	818.354	788.478	712.548	613.830	522.747	489.971	459.289	438.071	438.835
142.5	819.960	790.701	715.752	617.911	527.861	495.084	464.403	443.134	444.153
143.0	822.485	792.359	718.340	622.095	532.975	500.301	469.517	448.248	449.420
143.5	824.655	793.611	720.980	626.280	538.601	505.619	474.836	453.668	454.740
144.0	823.704	795.426	724.131	630.465	543.767	510.835	479.948	458.986	460.057
144.5	826.490	797.753	726.771	634.598	548.933	515.745	485.166	464.253	465.376
145.0	829.067	799.515	728.899	638.323	554.047	520.859	490.279	469.367	470.900
145.5	829.192	801.279	732.562	642.508	559.161	526.025	495.392	474.634	476.014
146.0	830.746	802.426	734.638	646.234	563.815	531.139	500.404	479.748	481.281
146.5	833.584	804.752	737.330	648.884	568.929	536.253	505.467	484.963	486.548
147.0	834.731	805.899	739.918	652.558	574.043	541.366	510.734	490.127	491.866
147.5	836.901	808.278	742.099	655.261	578.698	546.585	515.797	495.343	496.980
148.0	836.921	808.507	744.739	658.423	583.812	551.646	520.911	500.560	502.349
148.5	837.097	809.759	746.356	662.607	588.466	556.249	526.077	505.776	507.567
149.0	838.652	812.085	748.995	666.281	593.633	560.904	531.139	510.889	512.884
149.5	839.444	811.291	750.613	668.984	598.235	566.070	536.253	515.849	517.999
150.0	839.923	813.514	753.253	673.221	602.838	571.184	541.366	520.963	523.624
150.5	841.582	814.765	756.456	676.435	607.440	575.838	546.480	526.588	528.738
151.0	841.654	816.017	757.102	680.160	612.095	580.441	551.135	531.650	534.311
151.5	843.365	816.298	760.254	683.323	616.750	585.555	556.249	536.816	539.477
152.0	843.489	817.090	761.412	687.048	621.404	590.210	561.363	541.878	545.051
152.5	843.050	818.342	763.592	689.751	626.007	594.812	566.529	546.992	550.217
153.0	843.174	818.571	765.773	693.477	630.150	599.467	571.079	551.594	555.331
153.5	844.833	819.875	767.390	696.691	632.759	604.069	576.245	557.220	560.444
154.0	843.934	820.667	768.548	700.417	637.873	609.236	580.848	562.281	566.122
154.5	845.082	820.948	769.602	703.119	641.453	613.327	585.962	567.395	571.288
155.0	846.177	821.688	771.678	705.822	644.574	618.034	590.616	571.998	576.350
155.5	845.842	821.510	773.138	709.089	648.206	622.584	595.730	577.111	581.516
156.0	844.380	822.303	774.087	711.739	652.808	627.291	600.385	582.225	586.578
156.5	845.527	823.147	775.141	715.006	656.440	629.848	604.988	587.287	591.180
157.0	846.058	822.865	776.706	717.761	660.583	634.503	609.590	591.890	596.346
157.5	843.709	823.198	777.759	719.900	664.163	638.594	614.756	597.004	601.460
158.0	843.864	821.997	778.970	722.603	667.795	642.685	619.359	602.117	606.574
158.5	842.495	822.330	779.668	724.847	671.886	645.805	623.450	606.720	611.177
159.0	841.086	822.663	780.878	727.549	675.518	649.896	626.518	611.322	616.290
159.5	842.442	822.944	781.577	730.304	678.587	654.499	632.707	616.436	620.893
160.0	840.771	822.662	782.328	732.496	682.730	658.131	635.264	621.039	626.007
160.5	839.570	822.327	783.591	734.228	685.850	662.274	639.919	625.641	630.662
161.0	839.997	822.399	784.341	736.472	688.407	665.854	643.499	629.221	635.723
161.5	839.005	820.530	785.552	738.663	692.499	669.945	646.619	633.824	639.814
162.0	838.326	819.736	784.309	740.907	695.056	673.577	651.222	638.426	641.756
162.5	836.405	818.483	786.083	741.617	699.199	677.720	654.802	642.006	646.254
163.0	835.861	819.328	785.863	744.372	701.808	681.812	659.968	645.586	650.188
163.5	834.911	817.668	786.155	745.540	705.388	684.932	663.547	650.188	654.739
164.0	835.192	817.646	786.906	747.273	707.945	688.000	667.127	654.279	658.777
164.5	833.532	816.038	786.687	748.441	711.065	691.580	671.782	658.934	664.298
165.0	831.924	815.965	786.978	750.173	714.134	695.671	675.873	662.514	668.389
165.5	829.293	813.334	786.811	751.854	717.254	698.280	678.941	666.093	671.969
166.0	829.272	812.342	786.539	753.586	719.811	701.349	682.573	670.696	676.979
166.5	828.123	811.298	786.883	755.318	721.857	704.981	686.612	674.787	681.581

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CANDELA TABULATION - (Cont.)

167.0	826.870	810.254	786.204	755.057	724.466	707.538	690.755	678.419	685.672
167.5	824.646	808.291	786.037	756.330	726.564	710.606	693.312	683.074	689.252
168.0	821.097	806.787	785.870	757.603	729.120	713.727	697.456	687.165	693.395
168.5	820.564	805.587	785.702	758.929	731.678	716.795	701.599	691.308	697.434
169.0	817.474	803.822	784.512	758.156	734.287	719.863	704.104	694.377	700.962
169.5	815.919	801.912	784.345	759.888	735.769	721.909	708.195	698.979	703.978
170.0	814.363	799.949	783.666	760.191	737.303	725.029	711.316	702.048	708.069
170.5	812.860	799.061	782.016	761.005	738.889	727.586	713.925	705.679	711.701
171.0	809.717	797.203	782.413	761.360	739.912	730.143	716.534	709.259	714.822
171.5	807.244	795.345	780.200	761.714	742.521	731.730	719.654	712.943	718.913
172.0	805.897	793.028	780.137	762.528	744.619	734.287	722.723	714.989	721.877
172.5	803.475	790.762	778.487	762.372	746.101	736.844	725.791	719.080	725.915
173.0	800.082	788.904	776.942	762.267	747.176	739.401	728.860	722.148	727.909
173.5	798.277	786.587	776.473	763.186	748.146	740.423	731.416	724.705	731.541
174.0	796.366	784.781	774.416	763.081	748.658	742.980	733.462	727.826	735.068
174.5	793.381	781.493	772.976	762.977	750.244	745.537	735.967	730.894	736.602
175.0	790.395	779.228	771.535	761.902	751.778	747.071	738.012	733.399	739.619
175.5	787.462	777.067	770.147	762.924	752.749	748.042	740.621	736.008	741.664
176.0	786.679	774.958	768.811	762.872	753.824	750.140	743.126	738.617	745.808
176.5	782.420	771.932	767.527	762.413	754.283	751.163	746.247	741.226	747.394
177.0	780.207	770.032	765.325	762.413	754.388	752.697	746.758	743.731	749.951
177.5	776.919	767.162	764.709	761.390	755.358	753.208	749.315	745.777	751.433
178.0	773.840	765.418	763.634	761.390	755.870	754.742	750.797	748.897	755.576
178.5	770.563	762.246	762.100	760.879	755.870	756.277	752.331	750.891	758.081
179.0	768.361	761.171	760.054	760.879	756.381	756.788	754.940	752.936	759.104
179.5	766.263	759.177	759.032	759.856	756.381	757.811	755.963	754.523	763.247
180.0	758.311	758.311	758.311	758.311	758.311	758.311	758.311	758.311	758.311

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L25-835U-L25-835D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	281.54	N.A.	5.50
0-30	598.07	N.A.	11.70
0-40	981.05	N.A.	19.20
0-60	1776.9	N.A.	34.70
0-80	2379.79	N.A.	46.50
0-90	2569.17	N.A.	50.20
10-90	2496.44	N.A.	48.80
20-40	699.50	N.A.	13.70
20-50	1105.58	N.A.	21.60
40-70	1134.7	N.A.	22.20
60-80	602.89	N.A.	11.80
70-80	264.04	N.A.	5.20
80-90	189.38	N.A.	3.70
90-110	451.72	N.A.	8.80
90-120	788.19	N.A.	15.40
90-130	1175.2	N.A.	23.00
90-150	1957.71	N.A.	38.20
90-180	2549.13	N.A.	49.80
110-180	2097.41	N.A.	41.00
0-180	5118.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.73
10-20	208.81
20-30	316.52
30-40	382.98
40-50	406.08
50-60	389.77
60-70	338.85
70-80	264.04
80-90	189.38
90-100	189.11
100-110	262.62
110-120	336.46
120-130	387.02
130-140	402.98
140-150	379.53
150-160	313.15
160-170	206.36
170-180	71.91

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-835U-L25-835D-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-L25-835U-L25-835D-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

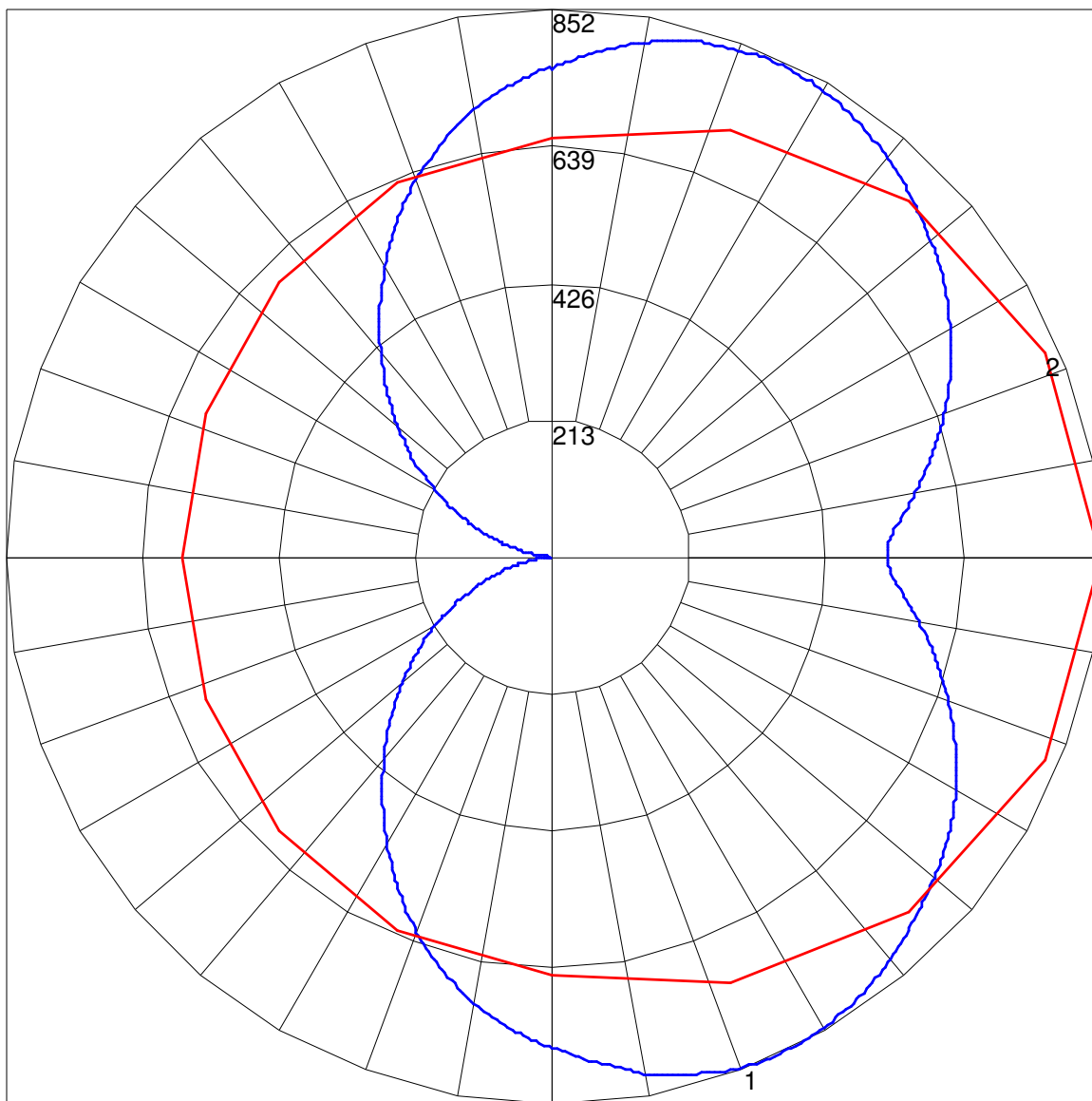
X=2H	Y=2H	19.5	20.4	20.4	21.4	22.6	13.5	14.4	14.4	15.4	16.6
	3H	22.6	23.4	23.5	24.4	25.7	14.8	15.7	15.8	16.6	17.9
	4H	24.2	24.9	25.1	25.9	27.2	15.3	16.1	16.2	17.0	18.3
	6H	25.9	26.6	26.8	27.6	28.9	15.5	16.2	16.5	17.2	18.5
	8H	26.8	27.5	27.7	28.5	29.8	15.6	16.3	16.5	17.3	18.6
	12H	27.8	28.4	28.8	29.4	30.8	15.6	16.2	16.6	17.2	18.6

UGR Viewed Endwise

4H	2H	19.8	20.5	20.7	21.5	22.8	14.7	15.5	15.7	16.5	17.8
	3H	23.1	23.7	24.1	24.7	26.1	16.4	17.0	17.4	18.0	19.4
	4H	24.8	25.4	25.8	26.5	27.8	16.9	17.6	17.9	18.6	19.9
	6H	26.7	27.3	27.8	28.3	29.6	17.3	17.9	18.3	18.9	20.2
	8H	27.8	28.2	28.8	29.3	30.6	17.4	17.9	18.4	18.9	20.3
	12H	28.9	29.3	29.9	30.4	31.7	17.5	17.9	18.5	19.0	20.3
8H	4H	25.0	25.5	26.0	26.5	27.8	18.1	18.6	19.1	19.6	20.9
	6H	27.0	27.5	28.1	28.5	29.9	18.7	19.1	19.7	20.2	21.5
	8H	28.2	28.6	29.2	29.6	31.0	18.9	19.3	19.9	20.3	21.7
	12H	29.5	29.8	30.5	30.9	32.3	19.0	19.4	20.1	20.4	21.8
12H	4H	24.9	25.4	26.0	26.4	27.8	18.4	18.9	19.4	19.9	21.2
	6H	27.1	27.4	28.1	28.5	29.9	19.2	19.6	20.3	20.6	22.0
	8H	28.3	28.6	29.3	29.6	31.0	19.5	19.9	20.6	20.9	22.3

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 852.196 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.)