

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-830U-L25-830D-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-L25-830U-L25-830D-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	5067
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	10462	9907	9498
55	10400	9480	8712
65	10418	9151	7783
75	10599	8944	6422
85	11142	9149	4485

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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	758.333	758.333	758.333	758.333	758.333	758.333	758.333	758.333	758.333
0.5	759.399	760.665	759.255	762.144	756.974	760.907	755.799	755.759	755.831
1.0	761.467	762.469	762.042	762.762	756.508	759.772	753.630	753.590	753.713
1.5	764.203	764.891	762.863	764.414	756.508	757.654	752.495	750.955	750.095
2.0	766.524	767.880	764.717	764.566	755.941	756.053	750.428	748.837	747.976
2.5	769.879	769.937	767.190	765.235	755.424	755.019	748.360	747.286	745.959
3.0	772.098	773.028	769.146	765.386	754.907	753.985	746.809	744.185	743.324
3.5	775.037	775.754	770.585	767.140	754.907	751.866	744.225	742.066	741.773
4.0	778.909	778.480	773.058	767.292	753.822	749.799	743.191	739.482	738.155
4.5	780.662	780.739	775.013	766.977	753.305	749.282	740.606	736.897	735.003
5.0	781.635	783.567	776.705	768.680	752.272	746.697	737.505	734.262	731.952
5.5	785.242	785.877	777.262	768.882	750.721	744.113	735.954	731.677	730.401
6.0	787.664	787.721	778.752	768.568	749.636	743.545	733.886	729.559	727.249
6.5	789.620	791.216	780.292	768.304	748.653	741.528	731.201	725.890	724.198
7.0	791.576	793.425	781.315	768.405	748.086	739.876	728.616	722.738	720.529
7.5	793.572	795.269	782.389	768.192	745.450	737.292	725.514	720.153	716.911
8.0	797.411	796.596	783.716	766.844	743.900	734.707	722.930	717.001	713.292
8.5	800.814	798.541	785.043	767.614	743.383	733.156	720.295	713.900	709.724
9.0	805.464	800.588	786.218	766.783	740.798	730.521	717.143	709.714	706.106
9.5	807.763	802.370	786.927	767.036	739.197	727.420	714.041	706.562	705.072
10.0	810.327	805.136	787.585	766.306	737.646	725.301	711.456	703.460	699.386
10.5	812.839	806.767	788.760	765.525	735.061	722.767	708.304	699.791	696.852
11.0	814.369	807.931	789.469	764.278	733.977	720.132	704.635	697.207	693.234
11.5	815.746	809.764	789.660	763.031	730.875	717.031	701.584	693.020	688.581
12.0	816.607	811.081	790.369	762.818	728.808	715.429	698.432	689.402	684.497
12.5	819.586	813.431	790.612	761.571	727.206	711.243	694.814	685.784	680.878
13.0	821.267	814.697	790.956	760.324	725.139	708.659	691.145	681.598	675.810
13.5	822.584	816.378	791.299	759.594	721.520	705.557	687.993	677.412	672.810
14.0	825.086	817.441	791.694	758.398	719.919	701.371	683.340	673.276	668.310
14.5	826.818	818.555	790.953	756.583	717.334	698.787	679.671	669.141	663.708
15.0	826.847	819.101	791.196	755.387	713.665	695.635	676.053	665.006	659.106
15.5	827.921	819.698	791.124	753.055	710.564	692.482	671.867	660.354	656.522
16.0	828.376	820.812	790.535	751.139	707.929	688.864	668.715	656.218	650.268
16.5	830.604	821.926	791.497	750.460	705.344	685.245	664.580	652.600	647.167
17.0	833.045	821.489	791.425	748.129	702.759	681.059	660.910	647.897	644.116
17.5	833.429	823.170	790.785	745.230	699.090	678.424	656.207	644.745	638.896
18.0	834.897	822.733	790.146	744.033	695.472	673.205	651.555	640.092	635.278
18.5	836.882	823.381	789.355	741.803	691.803	670.103	649.437	637.508	630.575
19.0	836.384	824.028	789.181	740.191	688.701	665.917	645.302	632.856	625.923
19.5	838.723	824.108	787.873	738.113	685.032	662.765	640.599	628.203	620.703
20.0	839.877	823.773	787.700	735.365	681.931	658.630	638.531	623.551	616.051
20.5	840.210	824.420	785.925	733.135	678.779	654.444	633.828	618.848	610.831
21.0	840.493	824.034	785.235	730.074	674.126	650.308	629.176	614.196	606.178
21.5	841.343	824.266	783.978	728.512	670.974	648.190	625.041	609.027	601.009
22.0	842.446	824.082	782.771	726.485	666.839	643.021	620.338	604.375	595.789
22.5	843.083	823.898	781.513	723.839	662.653	639.301	615.635	599.722	591.137
23.0	842.635	824.181	780.306	721.142	658.984	634.132	610.983	594.553	585.918
23.5	842.755	823.632	779.565	717.412	654.332	632.064	606.280	589.384	580.748
24.0	843.341	823.549	777.841	715.435	651.230	627.878	601.577	584.681	575.062
24.5	843.674	823.365	776.635	712.424	646.527	623.226	596.925	579.563	570.410
25.0	842.974	823.232	774.394	710.245	644.977	618.473	592.222	574.343	565.190
25.5	841.756	822.065	773.187	707.599	641.308	613.820	587.569	569.174	559.504
26.0	842.089	821.780	771.463	703.402	637.689	609.117	582.350	564.521	554.801
26.5	841.439	820.461	769.789	700.189	632.986	604.465	577.647	559.352	549.064

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CANDELA TABULATION - (Cont.)

27.0	840.272	819.659	768.684	697.543	628.283	599.712	572.478	554.183	543.895
27.5	840.240	819.374	765.561	694.897	624.097	595.059	567.775	548.963	538.676
28.0	840.573	818.055	763.523	690.133	619.445	589.840	563.072	543.794	532.989
28.5	839.204	816.736	761.951	687.953	615.310	585.187	557.903	538.625	527.770
29.0	838.087	816.451	760.379	683.757	610.141	580.485	552.734	532.939	522.601
29.5	837.853	814.099	758.391	679.459	605.438	575.315	547.514	527.770	517.173
30.0	837.456	812.678	756.302	676.762	600.735	570.045	542.861	522.550	511.799
30.5	836.137	811.511	754.213	673.083	596.083	565.393	537.642	517.329	506.629
31.0	835.953	810.710	752.175	669.302	591.430	560.173	532.472	512.108	501.254
31.5	834.837	809.806	749.052	667.639	586.727	555.004	527.303	506.991	495.931
32.0	833.102	808.487	747.530	663.341	581.558	550.301	522.084	501.665	490.812
32.5	833.436	806.652	744.874	661.162	576.856	545.081	516.863	496.496	485.387
33.0	830.616	805.900	742.684	657.482	572.203	539.912	511.642	491.070	479.959
33.5	831.101	803.497	739.977	653.235	566.983	534.692	506.473	485.849	474.738
34.0	830.401	801.712	736.753	649.505	561.814	529.523	501.253	480.731	469.312
34.5	828.767	799.876	733.529	645.207	556.595	524.820	496.032	475.407	464.039
35.0	826.830	798.040	731.389	640.959	551.425	519.496	490.914	470.186	458.922
35.5	825.613	796.772	729.148	637.229	546.773	514.276	485.797	464.914	453.546
36.0	823.665	793.902	726.025	632.982	541.604	509.055	480.576	459.744	448.171
36.5	822.549	792.066	723.835	628.735	535.918	503.835	475.150	454.679	442.847
37.0	820.764	790.798	720.044	624.437	530.698	498.769	470.084	449.356	437.471
37.5	819.181	787.979	716.769	620.189	525.529	493.395	464.915	443.979	432.406
38.0	818.531	785.626	714.680	615.942	520.360	488.174	459.642	438.914	426.928
38.5	815.296	783.841	710.422	611.695	515.088	482.850	454.473	433.642	421.500
39.0	813.713	782.573	707.664	606.931	509.712	477.733	449.200	428.473	416.228
39.5	811.462	779.703	708.059	602.633	504.491	472.512	444.135	423.200	411.007
40.0	810.862	777.918	704.885	598.386	499.115	467.136	439.018	418.032	405.941
40.5	807.729	776.032	701.712	593.622	493.740	461.917	433.694	412.862	400.720
41.0	805.376	773.314	698.437	589.324	488.520	456.696	428.525	407.642	395.398
41.5	802.760	770.961	695.264	584.661	483.040	451.269	423.252	402.577	390.279
42.0	802.110	769.075	691.472	580.464	477.716	446.306	418.084	397.305	385.163
42.5	799.960	766.773	688.248	576.268	472.340	441.034	412.863	392.033	380.096
43.0	797.292	762.869	684.923	572.172	466.965	435.710	407.694	387.070	374.722
43.5	796.024	761.033	681.750	567.510	461.331	430.386	402.370	381.747	369.707
44.0	793.306	758.681	678.059	562.847	456.058	425.166	397.046	376.526	364.796
44.5	791.156	756.379	674.217	558.133	450.579	419.997	391.826	371.410	359.680
45.0	789.573	754.543	671.044	553.886	445.203	414.519	386.657	366.137	354.666
45.5	786.187	751.207	667.303	549.225	439.828	409.245	381.281	361.071	349.394
46.0	785.952	748.905	663.562	544.616	434.349	403.921	376.111	355.954	344.329
46.5	782.819	747.586	660.338	539.954	428.920	398.649	370.787	350.734	339.470
47.0	781.652	746.784	656.597	535.190	423.287	393.377	365.566	345.719	334.560
47.5	779.917	744.634	652.805	530.682	417.704	388.001	360.347	340.551	329.339
48.0	777.818	741.612	649.216	526.174	412.173	382.471	355.228	335.640	324.273
48.5	774.431	738.894	645.323	521.615	406.746	377.095	349.905	330.524	319.259
49.0	772.332	736.025	641.633	516.900	401.319	371.771	344.684	325.561	314.142
49.5	770.283	733.155	637.841	512.187	395.840	366.550	339.567	320.548	309.283
50.0	770.565	730.904	634.050	507.577	390.309	361.226	334.450	315.534	304.165
50.5	766.864	728.034	630.359	502.813	384.829	355.747	329.178	310.777	299.204
51.0	766.163	725.265	626.669	498.204	379.402	350.475	324.060	305.713	294.191
51.5	763.598	722.447	622.361	493.439	373.974	345.047	318.839	300.699	289.332
52.0	761.032	719.060	618.518	488.469	368.443	339.826	313.825	295.789	284.576
52.5	758.831	716.241	614.828	483.809	363.015	334.555	308.709	290.878	279.614
53.0	756.113	713.321	610.570	478.941	357.536	329.179	303.540	285.968	274.600
53.5	753.395	710.552	606.727	474.126	352.212	323.751	298.370	281.109	269.587
54.0	750.880	707.632	602.729	469.207	346.682	318.530	293.253	276.094	265.140
54.5	748.162	704.448	598.574	464.236	341.358	313.361	288.188	271.288	260.231

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55.0	745.546	701.528	594.627	459.421	335.930	307.986	283.071	266.326	255.268
55.5	742.879	698.141	590.730	454.399	330.554	302.560	278.006	261.415	250.512
56.0	740.262	695.322	586.680	449.532	325.075	297.338	272.991	256.711	245.499
56.5	737.747	691.936	582.474	444.458	319.646	292.014	267.771	251.645	240.899
57.0	735.080	689.167	578.322	439.435	314.168	286.793	262.911	246.994	236.349
57.5	731.896	685.831	574.320	434.414	308.791	281.367	257.950	241.980	231.336
58.0	729.077	682.394	570.218	429.236	303.209	276.093	252.832	237.276	226.529
58.5	726.562	679.058	566.015	424.215	297.730	270.873	247.921	232.469	221.669
59.0	723.894	675.823	561.655	419.037	292.147	265.601	243.011	227.610	217.069
59.5	720.761	672.336	557.602	413.860	286.513	260.277	238.152	222.906	212.365
60.0	717.375	668.949	553.243	408.839	280.982	254.902	233.293	218.150	207.609
60.5	714.292	665.613	549.193	403.817	275.502	249.629	228.331	213.446	202.854
61.0	711.625	662.224	544.988	398.898	270.075	244.305	223.369	208.691	198.150
61.5	708.390	658.838	540.783	393.825	264.544	239.136	218.407	203.935	193.394
62.0	704.638	655.245	536.371	388.647	259.115	233.813	213.651	199.180	188.845
62.5	701.454	651.701	532.215	383.574	253.532	228.592	208.689	194.373	184.038
63.0	698.270	648.312	528.064	378.501	248.156	223.216	203.727	189.669	179.437
63.5	695.086	644.564	523.859	373.426	242.677	217.892	198.867	185.016	174.682
64.0	691.953	640.919	519.447	368.353	237.198	212.826	193.956	180.208	170.237
64.5	688.252	637.325	515.294	363.280	231.771	207.553	188.942	175.505	165.946
65.0	684.707	633.732	510.729	358.000	226.292	202.384	183.928	170.852	161.138
65.5	681.112	629.932	506.522	352.772	220.761	197.112	179.121	166.148	156.590
66.0	677.618	626.027	502.266	347.699	215.384	191.840	174.107	161.548	152.144
66.5	674.329	622.280	497.752	342.575	210.009	186.568	169.300	156.792	147.699
67.0	670.628	618.530	493.546	337.450	204.632	181.399	164.595	152.243	143.408
67.5	667.031	614.781	489.031	332.170	199.255	176.333	159.788	147.643	138.911
68.0	663.485	610.880	484.621	326.942	193.622	171.319	154.930	143.094	134.310
68.5	659.733	606.975	480.262	321.766	188.194	166.046	150.071	138.545	129.762
69.0	656.447	603.125	475.695	316.693	182.870	161.032	145.264	133.996	125.575
69.5	652.746	599.376	471.438	311.672	177.546	155.863	140.714	129.551	121.233
70.0	649.251	595.471	466.874	306.651	172.170	150.849	136.011	125.105	116.889
70.5	645.653	591.516	462.462	301.577	166.846	145.732	131.359	120.556	112.393
71.0	642.158	587.612	457.999	296.352	161.470	140.770	126.707	116.266	108.051
71.5	638.610	583.707	453.332	291.332	156.404	135.808	122.159	111.975	103.761
72.0	634.760	579.548	448.972	286.465	151.130	130.845	117.609	107.685	99.831
72.5	631.108	575.746	444.509	281.496	145.497	125.934	113.112	103.550	95.437
73.0	627.308	571.740	440.150	276.682	140.430	121.127	108.718	99.208	91.302
73.5	623.606	567.631	435.741	271.712	135.210	116.475	104.272	94.969	87.063
74.0	619.956	563.676	431.177	266.744	130.092	111.771	99.879	90.936	83.032
74.5	616.001	559.519	426.765	261.828	125.129	107.119	95.588	86.852	79.259
75.0	612.248	555.563	422.151	257.064	120.115	102.466	91.349	82.821	75.175
75.5	608.394	551.454	417.743	252.097	115.203	97.918	87.110	78.686	71.297
76.0	604.489	547.500	413.539	247.233	110.293	93.472	82.820	74.809	67.524
76.5	600.580	543.340	409.028	242.623	105.382	89.078	78.582	70.777	63.803
77.0	596.623	539.439	404.619	237.708	100.625	84.684	74.652	67.004	60.339
77.5	592.666	535.332	400.211	233.150	95.766	80.342	70.569	63.178	56.720
78.0	588.813	531.379	395.957	228.493	91.217	76.000	66.589	59.508	53.205
78.5	584.649	527.274	391.753	224.090	86.617	71.761	62.660	55.889	49.690
79.0	580.746	523.064	387.449	219.434	82.170	67.678	58.784	52.270	46.123
79.5	576.788	519.112	383.245	214.930	77.673	63.646	55.009	48.652	42.867
80.0	572.732	515.109	378.994	210.481	73.227	59.716	51.339	45.240	39.559
80.5	568.673	511.057	374.740	206.286	68.936	55.788	47.721	41.829	36.354
81.0	564.872	507.156	370.797	202.093	64.800	51.962	44.206	38.520	33.045
81.5	560.968	502.947	366.700	197.900	60.768	48.291	40.741	35.264	29.841
82.0	557.013	499.048	362.757	193.708	56.788	44.673	37.279	32.059	26.843
82.5	553.467	495.510	358.867	189.670	52.807	41.209	34.073	29.112	23.998

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CANDELA TABULATION - (Cont.)

83.0	549.617	491.714	354.874	185.889	48.982	37.694	30.868	26.113	21.053
83.5	545.973	487.865	350.985	182.160	45.312	34.282	27.818	23.167	18.210
84.0	542.430	484.224	347.302	178.434	41.745	31.025	24.820	20.324	15.418
84.5	538.784	480.481	343.568	174.706	38.230	27.872	21.770	17.481	12.834
85.0	535.345	476.686	339.887	171.186	34.819	24.822	18.875	14.845	10.507
85.5	531.956	473.200	336.049	167.666	31.459	21.772	16.083	12.312	8.439
86.0	528.571	469.865	332.367	164.300	28.202	18.826	13.395	10.037	6.940
86.5	525.436	466.834	329.045	160.935	25.049	15.982	10.811	8.279	5.905
87.0	522.555	464.717	325.769	157.827	22.051	13.191	8.536	6.883	5.233
87.5	520.484	463.108	323.308	154.617	19.052	10.502	6.933	6.003	4.819
88.0	519.481	462.361	321.555	151.457	16.003	7.865	5.795	5.383	4.610
88.5	518.726	461.815	320.458	148.702	12.953	5.694	5.174	4.918	4.352
89.0	518.278	461.678	320.178	146.809	9.850	4.660	4.812	4.762	4.300
89.5	518.187	461.592	319.947	146.182	7.212	4.297	4.657	4.606	4.248
90.0	518.247	461.557	319.974	146.218	6.168	4.194	4.604	4.605	4.298
90.5	517.848	461.677	320.004	146.512	7.328	4.193	4.603	4.604	4.246
91.0	518.065	462.055	320.391	147.888	9.858	4.242	4.552	4.655	4.246
91.5	518.179	462.742	321.242	150.299	12.896	5.053	4.602	4.603	4.194
92.0	518.809	463.842	323.178	153.176	15.832	6.520	4.754	4.552	4.295
92.5	519.490	465.712	325.834	156.054	18.666	8.899	5.158	4.704	4.396
93.0	520.893	468.051	329.006	159.391	21.500	11.684	6.171	4.906	4.751
93.5	522.710	471.007	332.384	162.369	24.437	14.468	7.892	5.462	5.561
94.0	525.403	474.374	335.861	165.755	27.525	17.303	10.221	6.576	7.130
94.5	528.664	477.795	339.133	169.090	30.664	20.036	12.904	8.349	9.307
95.0	532.079	481.468	342.969	172.423	33.904	23.023	15.637	10.474	11.736
95.5	535.494	485.193	346.650	175.910	37.245	26.062	18.472	13.056	14.522
96.0	539.063	488.661	350.278	179.497	40.688	29.099	21.511	15.842	17.256
96.5	542.529	492.231	354.010	183.238	44.231	32.288	24.498	18.625	20.192
97.0	546.045	495.854	357.741	187.029	47.876	35.478	27.586	21.561	23.179
97.5	549.664	499.575	361.523	190.818	51.674	38.870	30.725	24.651	26.116
98.0	553.177	503.297	365.308	194.861	55.420	42.312	33.864	27.638	29.102
98.5	556.896	507.120	369.293	198.956	59.420	45.856	37.154	30.776	32.343
99.0	560.563	510.995	373.279	202.997	63.572	49.654	40.547	33.965	35.583
99.5	564.231	514.766	377.314	207.244	67.722	53.400	44.039	37.308	38.976
100.0	567.897	518.640	381.452	211.538	71.975	57.349	47.532	40.649	42.215
100.5	571.564	522.564	385.537	215.834	76.329	61.298	51.178	43.991	45.658
101.0	575.435	526.386	389.725	220.282	80.785	65.247	54.976	47.433	49.050
101.5	579.000	530.205	393.860	224.679	85.290	69.501	58.722	50.927	52.645
102.0	582.868	534.182	398.198	229.178	89.897	73.447	62.620	54.521	56.342
102.5	586.585	538.003	402.383	233.625	94.504	77.904	66.519	58.217	59.987
103.0	590.406	541.926	406.618	238.123	99.315	83.169	70.518	61.913	63.733
103.5	594.223	545.798	410.905	242.721	104.175	87.523	74.569	65.710	67.429
104.0	598.045	549.669	415.243	247.423	108.934	91.218	78.619	69.559	71.378
104.5	601.758	553.745	419.527	252.021	113.794	95.876	82.872	73.507	75.327
105.0	605.680	557.567	423.763	256.620	118.857	100.332	87.075	77.507	79.327
105.5	609.040	561.489	428.149	261.321	123.871	105.040	91.326	81.507	83.326
106.0	612.907	565.411	432.384	266.071	128.932	110.305	95.681	85.557	87.428
106.5	616.523	569.181	436.618	270.873	134.148	115.773	100.086	89.659	91.477
107.0	620.290	573.052	440.904	275.522	139.261	119.773	104.440	93.860	95.883
107.5	624.057	576.974	445.138	280.325	144.476	124.076	108.997	98.011	99.984
108.0	627.672	580.794	449.527	285.227	149.692	128.936	113.452	102.468	104.287
108.5	631.234	584.614	453.863	290.130	155.008	133.899	117.958	106.719	108.541
109.0	635.052	588.282	458.149	294.982	160.273	138.809	122.615	111.176	112.895
109.5	638.564	592.359	462.433	299.783	165.538	143.771	127.224	115.479	117.198
110.0	642.229	595.924	466.618	304.788	170.905	148.784	131.780	119.934	121.705
110.5	645.793	599.746	470.650	309.690	176.271	153.796	136.488	124.389	126.110

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CANDELA TABULATION - (Cont.)

111.0	649.407	603.313	474.883	314.594	181.688	158.859	141.197	128.896	130.616
111.5	652.922	607.032	479.171	319.599	187.106	163.922	145.855	133.453	134.919
112.0	656.283	610.753	483.352	324.552	192.523	169.036	150.664	138.009	139.272
112.5	659.897	614.422	487.639	329.606	198.093	174.250	155.524	142.515	143.728
113.0	663.154	618.091	491.875	334.559	203.459	179.465	160.284	147.021	148.285
113.5	666.718	621.710	496.056	339.715	208.876	184.731	165.194	151.679	152.942
114.0	670.128	625.173	500.239	344.668	214.446	189.895	170.208	156.286	157.499
114.5	673.488	628.740	504.423	349.672	219.812	195.211	176.181	161.046	162.055
115.0	676.646	632.360	508.607	354.727	225.281	200.478	182.560	165.755	166.714
115.5	679.856	635.927	512.740	359.731	230.799	205.844	187.116	170.362	171.220
116.0	683.317	639.240	516.975	364.735	236.318	211.109	190.256	175.070	176.131
116.5	686.426	642.809	520.954	369.739	241.735	216.375	194.610	179.778	180.738
117.0	689.886	646.377	525.240	374.794	247.254	221.843	200.383	184.588	185.549
117.5	692.943	649.638	529.270	379.747	252.874	227.058	206.863	189.195	190.104
118.0	696.001	653.153	533.352	384.802	258.241	232.526	212.026	194.056	194.864
118.5	698.903	656.417	537.637	389.754	263.810	237.894	215.572	198.662	199.573
119.0	702.012	659.578	541.618	394.809	269.329	243.159	219.521	203.625	204.434
119.5	705.121	663.245	545.699	399.762	274.848	248.374	224.381	208.384	208.989
120.0	708.076	666.561	549.730	404.664	280.468	253.690	229.343	213.244	214.053
120.5	711.081	669.773	553.761	409.466	285.936	259.108	234.355	218.055	218.711
121.0	714.087	672.934	557.844	414.469	291.252	264.373	239.316	222.966	223.471
121.5	717.144	676.250	561.774	419.320	296.821	269.588	244.278	228.788	228.230
122.0	719.644	679.463	565.806	424.325	302.339	274.854	249.443	235.421	233.090
122.5	722.753	682.065	569.684	429.176	307.757	280.069	254.405	241.091	238.001
123.0	725.810	685.381	573.664	434.027	313.226	285.436	259.469	244.838	242.862
123.5	728.868	688.490	577.698	438.828	318.744	290.651	264.531	249.344	247.874
124.0	731.419	691.248	581.728	443.629	324.111	295.967	269.646	255.218	254.608
124.5	734.476	694.409	585.605	448.532	329.630	301.334	274.709	260.179	263.368
125.0	737.131	697.673	589.638	453.382	334.997	306.448	279.873	263.521	268.986
125.5	739.630	700.380	593.617	458.235	340.515	311.764	284.936	267.066	271.620
126.0	742.636	703.592	597.346	462.883	345.881	317.029	290.050	271.773	272.531
126.5	745.136	706.402	601.323	467.634	351.248	322.194	295.062	276.634	276.784
127.0	747.790	709.614	605.558	472.384	356.717	327.561	300.125	281.546	281.644
127.5	750.393	712.321	609.185	476.983	362.134	332.775	305.239	286.407	286.556
128.0	752.893	715.078	612.707	481.783	367.450	338.142	310.404	291.317	291.569
128.5	755.495	718.291	616.891	486.534	372.969	343.509	315.314	296.280	296.479
129.0	758.098	721.049	620.517	491.183	378.437	348.724	320.631	301.342	301.492
129.5	758.066	723.755	624.143	495.883	383.854	353.989	325.846	306.254	306.504
130.0	760.721	726.461	628.327	500.582	389.221	359.255	331.010	311.165	311.517
130.5	762.311	729.168	631.902	505.333	394.589	364.622	336.175	316.076	316.580
131.0	764.811	731.316	635.528	509.930	400.056	369.887	341.186	321.038	321.541
131.5	765.440	733.671	639.154	514.580	405.575	375.102	346.300	326.101	326.554
132.0	769.407	735.871	642.780	519.178	410.992	380.317	351.566	331.113	331.718
132.5	772.061	738.019	646.406	523.777	416.511	385.634	356.679	336.125	336.728
133.0	773.197	739.868	650.032	528.274	421.979	390.848	361.995	341.037	341.744
133.5	775.696	741.562	653.658	532.923	427.296	396.165	367.108	346.707	346.756
134.0	779.312	744.826	657.232	537.623	432.663	401.481	372.375	351.669	351.921
134.5	780.396	747.026	660.352	542.221	438.080	406.645	377.589	356.733	356.882
135.0	782.947	750.290	663.978	546.922	443.497	412.063	382.702	361.846	362.200
135.5	786.108	751.932	667.604	551.013	448.915	417.378	387.969	367.011	367.109
136.0	787.140	754.183	671.075	555.714	454.282	422.695	393.082	371.921	372.274
136.5	790.704	756.435	674.298	560.260	459.598	427.808	398.246	377.036	377.183
137.0	790.775	759.090	677.366	564.909	465.016	433.174	403.461	382.049	382.553
137.5	793.729	761.848	681.044	569.104	470.282	438.544	408.473	387.059	387.616
138.0	794.813	763.541	682.996	573.598	475.595	443.705	413.583	392.070	392.366
138.5	797.922	766.806	685.661	577.741	480.709	448.919	418.800	397.388	397.788

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CANDELA TABULATION - (Cont.)

139.0	799.668	768.045	689.287	582.338	485.975	453.982	423.914	402.400	402.953
139.5	801.103	770.193	691.849	586.378	491.293	459.299	429.028	407.514	408.067
140.0	802.693	772.496	695.021	590.469	496.507	464.362	433.990	412.527	413.131
140.5	805.348	774.799	696.622	595.015	501.774	469.628	439.256	417.793	418.600
141.0	806.886	777.000	699.235	599.055	507.141	474.743	444.471	423.159	423.966
141.5	808.983	777.784	702.861	603.601	512.457	479.907	449.584	428.425	429.181
142.0	810.170	780.594	705.423	607.692	517.520	485.071	454.696	433.690	434.446
142.5	811.761	782.793	708.594	611.731	522.583	490.134	459.759	438.702	439.712
143.0	814.260	784.436	711.156	615.874	527.645	495.298	464.822	443.765	444.926
143.5	816.409	785.675	713.770	620.017	533.215	500.563	470.087	449.132	450.193
144.0	815.467	787.472	716.889	624.160	538.329	505.727	475.149	454.396	455.457
144.5	818.225	789.775	719.503	628.252	543.443	510.587	480.314	459.610	460.722
145.0	820.776	791.520	721.610	631.940	548.506	515.650	485.377	464.673	466.191
145.5	820.900	793.266	725.236	636.083	553.569	520.764	490.438	469.888	471.254
146.0	822.438	794.402	727.292	639.771	558.177	525.827	495.400	474.951	476.468
146.5	825.248	796.705	729.957	642.395	563.240	530.890	500.412	480.113	481.683
147.0	826.384	797.841	732.519	646.032	568.303	535.953	505.627	485.226	486.947
147.5	828.532	800.196	734.678	648.708	572.911	541.119	510.639	490.390	492.010
148.0	828.552	800.422	737.291	651.838	577.974	546.130	515.702	495.554	497.326
148.5	828.726	801.661	738.892	655.981	582.582	550.686	520.816	500.718	502.491
149.0	830.265	803.965	741.505	659.618	587.696	555.295	525.827	505.780	507.755
149.5	831.049	803.178	743.106	662.294	592.253	560.409	530.890	510.690	512.819
150.0	831.524	805.378	745.720	666.489	596.809	565.472	535.953	515.753	518.388
150.5	833.166	806.617	748.891	669.671	601.366	570.080	541.015	521.322	523.451
151.0	833.237	807.857	749.532	673.359	605.974	574.636	545.624	526.333	528.968
151.5	834.931	808.135	752.651	676.489	610.582	579.699	550.686	531.448	534.083
152.0	835.054	808.919	753.798	680.178	615.190	584.308	555.749	536.459	539.600
152.5	834.619	810.159	755.957	682.854	619.747	588.864	560.864	541.522	544.715
153.0	834.742	810.385	758.115	686.542	623.849	593.472	565.369	546.078	549.777
153.5	836.385	811.676	759.716	689.724	626.432	598.029	570.483	551.647	554.840
154.0	835.495	812.460	760.863	693.412	631.495	603.143	575.039	556.658	560.461
154.5	836.631	812.739	761.906	696.088	635.039	607.193	580.102	561.721	565.575
155.0	837.715	813.471	763.961	698.764	638.128	611.853	584.710	566.278	570.586
155.5	837.383	813.295	765.407	701.998	641.723	616.358	589.773	571.340	575.701
156.0	835.936	814.080	766.347	704.622	646.280	621.018	594.381	576.403	580.712
156.5	837.072	814.916	767.390	707.856	649.876	623.549	598.938	581.414	585.268
157.0	837.598	814.636	768.939	710.583	653.978	628.157	603.494	585.971	590.383
157.5	835.272	814.966	769.982	712.701	657.521	632.208	608.609	591.034	595.446
158.0	835.425	813.777	771.180	715.377	661.117	636.258	613.165	596.096	600.508
158.5	834.071	814.107	771.872	717.598	665.167	639.347	617.216	600.653	605.065
159.0	832.675	814.437	773.070	720.274	668.763	643.397	620.253	605.209	610.128
159.5	834.017	814.715	773.761	723.001	671.801	647.954	626.380	610.272	614.684
160.0	832.363	814.435	774.505	725.171	675.903	651.550	628.912	614.828	619.747
160.5	831.174	814.104	775.755	726.886	678.992	655.652	633.520	619.385	624.355
161.0	831.597	814.175	776.498	729.107	681.523	659.195	637.064	622.929	629.366
161.5	830.615	812.325	777.696	731.277	685.573	663.246	640.153	627.486	633.416
162.0	829.943	811.539	776.466	733.498	688.105	666.841	644.710	632.042	635.338
162.5	828.041	810.298	778.222	734.200	692.207	670.943	648.254	635.586	639.791
163.0	827.503	811.135	778.005	736.928	694.790	674.993	653.368	639.130	643.686
163.5	826.562	809.491	778.294	738.085	698.334	678.083	656.912	643.686	648.191
164.0	826.840	809.470	779.037	739.800	700.865	681.120	660.456	647.736	652.190
164.5	825.196	807.878	778.820	740.957	703.955	684.664	665.064	652.345	657.655
165.0	823.605	807.805	779.109	742.672	706.992	688.715	669.114	655.889	661.706
165.5	821.000	805.201	778.943	744.335	710.082	691.298	672.152	659.433	665.250
166.0	820.979	804.219	778.674	746.050	712.613	694.335	675.747	663.989	670.209
166.5	819.842	803.185	779.014	747.765	714.638	697.931	679.746	668.039	674.765

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167.0	818.601	802.151	778.342	747.506	717.221	700.462	683.848	671.635	678.816
167.5	816.400	800.208	778.177	748.767	719.298	703.500	686.379	676.243	682.360
168.0	812.886	798.720	778.011	750.027	721.829	706.589	690.481	680.293	686.461
168.5	812.359	797.531	777.845	751.339	724.361	709.627	694.583	684.395	690.460
169.0	809.300	795.784	776.667	750.575	726.944	712.665	697.063	687.433	693.952
169.5	807.760	793.892	776.501	752.290	728.411	714.690	701.113	691.989	696.938
170.0	806.219	791.949	775.829	752.589	729.930	717.779	704.202	695.027	700.988
170.5	804.731	791.071	774.196	753.395	731.500	720.311	706.785	698.623	704.584
171.0	801.620	789.231	774.588	753.746	732.513	722.842	709.369	702.167	707.673
171.5	799.171	787.391	772.398	754.097	735.096	724.412	712.458	705.814	711.724
172.0	797.838	785.097	772.335	754.903	737.173	726.944	715.495	707.839	714.658
172.5	795.440	782.855	770.702	754.748	738.640	729.475	718.533	711.889	718.656
173.0	792.082	781.015	769.173	754.645	739.704	732.007	721.571	714.927	720.630
173.5	790.294	778.721	768.708	755.554	740.665	733.019	724.102	717.458	724.225
174.0	788.402	776.933	766.672	755.450	741.171	735.551	726.127	720.548	727.718
174.5	785.447	773.678	765.246	755.347	742.742	738.082	728.607	723.585	729.236
175.0	782.491	771.435	763.820	754.283	744.261	739.601	730.632	726.065	732.222
175.5	779.587	769.296	762.446	755.295	745.221	740.562	733.215	728.648	734.248
176.0	778.812	767.209	761.123	755.244	746.286	742.638	735.695	731.231	738.350
176.5	774.596	764.212	759.852	754.789	746.740	743.651	738.784	733.814	739.920
177.0	772.405	762.332	757.672	754.789	746.844	745.170	739.291	736.294	742.451
177.5	769.150	759.490	757.062	753.777	747.804	745.676	741.822	738.319	743.918
178.0	766.102	757.764	755.998	753.777	748.311	747.195	743.289	741.408	748.020
178.5	762.857	754.623	754.479	753.270	748.311	748.714	744.808	743.382	750.500
179.0	760.677	753.559	752.454	753.270	748.817	749.220	747.391	745.407	751.513
179.5	758.601	751.586	751.441	752.258	748.817	750.232	748.404	746.977	755.615
180.0	750.728	750.728	750.728	750.728	750.728	750.728	750.728	750.728	750.728

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L25-830U-L25-830D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	278.73	N.A.	5.50
0-30	592.08	N.A.	11.70
0-40	971.23	N.A.	19.20
0-60	1759.13	N.A.	34.70
0-80	2355.99	N.A.	46.50
0-90	2543.48	N.A.	50.20
10-90	2471.48	N.A.	48.80
20-40	692.51	N.A.	13.70
20-50	1094.53	N.A.	21.60
40-70	1123.35	N.A.	22.20
60-80	596.86	N.A.	11.80
70-80	261.40	N.A.	5.20
80-90	187.49	N.A.	3.70
90-110	447.20	N.A.	8.80
90-120	780.30	N.A.	15.40
90-130	1163.45	N.A.	23.00
90-150	1938.13	N.A.	38.20
90-180	2523.64	N.A.	49.80
110-180	2076.43	N.A.	41.00
0-180	5067.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.00
10-20	206.72
20-30	313.36
30-40	379.15
40-50	402.02
50-60	385.87
60-70	335.46
70-80	261.40
80-90	187.49
90-100	187.22
100-110	259.99
110-120	333.10
120-130	383.15
130-140	398.95
140-150	375.73
150-160	310.02
160-170	204.29
170-180	71.20

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L25-830U-L25-830D-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-L25-830U-L25-830D-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

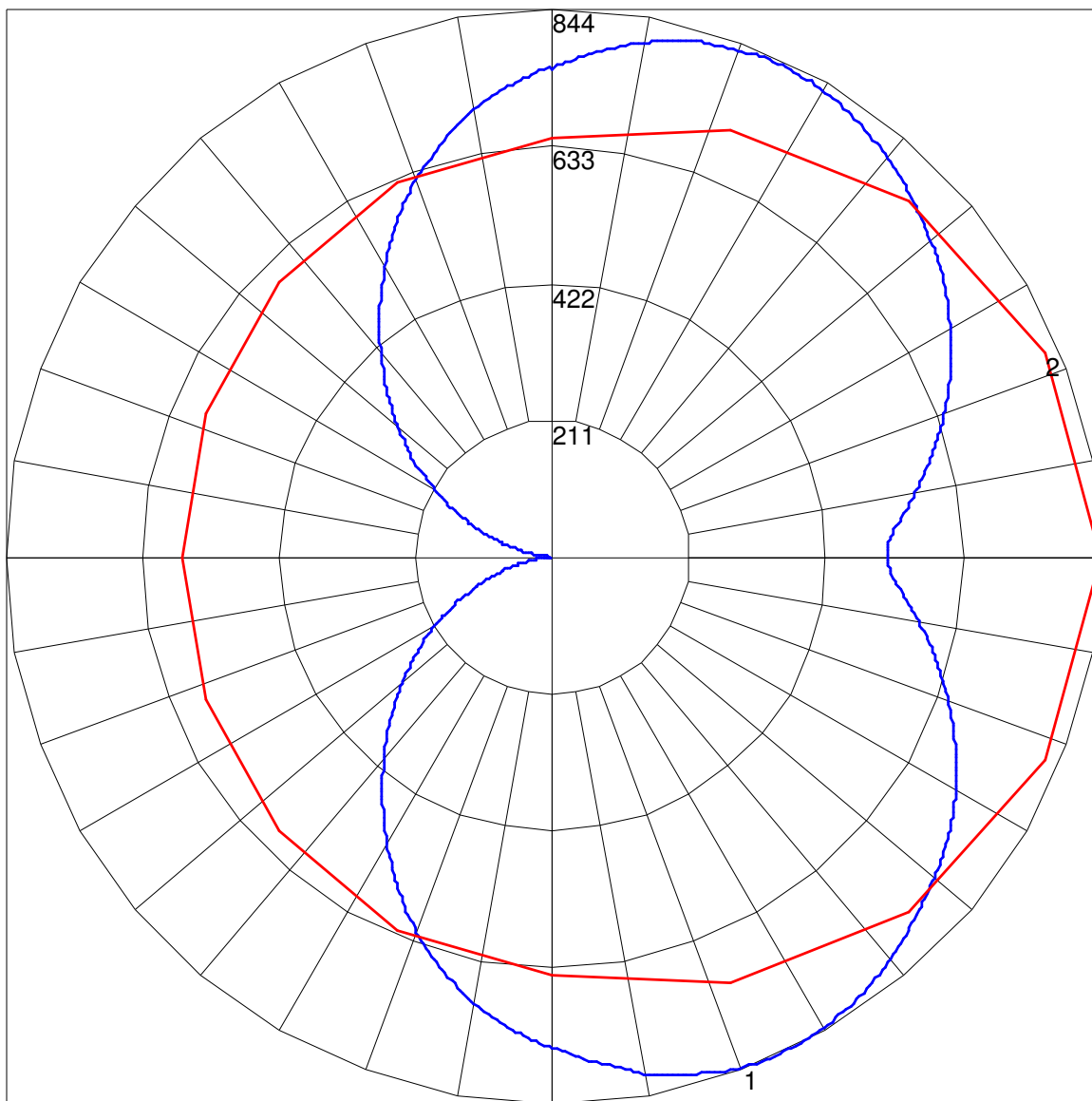
X=2H	Y=2H	19.4	20.3	20.3	21.3	22.5	13.4	14.3	14.3	15.3	16.5
	3H	22.5	23.3	23.4	24.3	25.6	14.7	15.6	15.7	16.5	17.8
	4H	24.1	24.8	25.0	25.8	27.1	15.2	16.0	16.1	16.9	18.2
	6H	25.8	26.5	26.7	27.5	28.8	15.4	16.1	16.4	17.1	18.4
	8H	26.7	27.4	27.6	28.4	29.7	15.5	16.2	16.4	17.2	18.5
	12H	27.7	28.3	28.7	29.3	30.7	15.5	16.1	16.5	17.1	18.5

UGR Viewed Endwise

4H	2H	19.7	20.4	20.6	21.4	22.7	14.6	15.4	15.6	16.4	17.7
	3H	23.0	23.6	24.0	24.6	26.0	16.3	16.9	17.3	17.9	19.3
	4H	24.7	25.3	25.7	26.4	27.7	16.8	17.5	17.8	18.5	19.8
	6H	26.6	27.2	27.7	28.2	29.5	17.2	17.8	18.2	18.8	20.1
	8H	27.7	28.1	28.7	29.2	30.5	17.3	17.8	18.3	18.8	20.2
	12H	28.8	29.2	29.8	30.3	31.6	17.4	17.8	18.4	18.9	20.2
8H	4H	24.9	25.4	25.9	26.4	27.7	18.0	18.5	19.0	19.5	20.8
	6H	26.9	27.4	28.0	28.4	29.8	18.6	19.0	19.6	20.1	21.4
	8H	28.1	28.5	29.1	29.5	30.9	18.8	19.2	19.8	20.2	21.6
	12H	29.4	29.7	30.4	30.8	32.2	18.9	19.3	20.0	20.3	21.7
12H	4H	24.8	25.3	25.9	26.3	27.7	18.3	18.8	19.3	19.8	21.1
	6H	27.0	27.3	28.0	28.4	29.8	19.1	19.5	20.2	20.5	21.9
	8H	28.2	28.5	29.2	29.5	30.9	19.4	19.8	20.5	20.8	22.2

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 843.674 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.)