

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-840U-L13-840D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFACT] H E Williams Inc
[LUMCAT] CMH-2-00-L13-840U-L13-840D-DMA-DIM-UNV_
[LUMINAIRE] 2' wall mounted fixture with both up and down lighting
[MORE] compartments
[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	2717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	23.8
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)	1.83 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11224	10459	9864
55	11157	9969	8931
65	11177	9577	7817
75	11371	9301	6191
85	11953	9424	3757

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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	406.665	406.665	406.665	406.665	406.665	406.665	406.665	406.665	406.665
0.5	407.236	407.915	407.159	408.708	405.936	408.045	405.306	405.285	405.323
1.0	408.345	408.883	408.654	409.040	405.686	407.436	404.143	404.121	404.187
1.5	409.813	410.181	409.094	409.926	405.686	406.301	403.534	402.708	402.247
2.0	411.057	411.785	410.089	410.007	405.382	405.442	402.425	401.572	401.111
2.5	412.856	412.888	411.415	410.366	405.105	404.887	401.317	400.741	400.029
3.0	414.046	414.545	412.463	410.447	404.827	404.333	400.485	399.078	398.616
3.5	415.623	416.007	413.235	411.387	404.827	403.197	399.099	397.942	397.784
4.0	417.699	417.469	414.561	411.469	404.246	402.088	398.545	396.556	395.844
4.5	418.639	418.680	415.610	411.300	403.969	401.811	397.159	395.170	394.154
5.0	419.160	420.196	416.517	412.213	403.414	400.425	395.495	393.756	392.518
5.5	421.095	421.435	416.816	412.322	402.583	399.039	394.664	392.370	391.686
6.0	422.394	422.424	417.614	412.153	402.001	398.735	393.555	391.234	389.996
6.5	423.443	424.299	418.440	412.012	401.474	397.653	392.115	389.267	388.359
7.0	424.492	425.483	418.989	412.066	401.169	396.767	390.729	387.576	386.392
7.5	425.562	426.472	419.565	411.952	399.756	395.381	389.065	386.190	384.451
8.0	427.621	427.184	420.277	411.229	398.925	393.995	387.679	384.500	382.511
8.5	429.446	428.227	420.988	411.642	398.647	393.163	386.266	382.837	380.598
9.0	431.939	429.324	421.618	411.196	397.261	391.750	384.576	380.592	378.657
9.5	433.172	430.280	421.998	411.332	396.403	390.087	382.913	378.902	378.103
10.0	434.547	431.763	422.351	410.940	395.571	388.951	381.527	377.239	375.054
10.5	435.894	432.638	422.981	410.522	394.185	387.592	379.836	375.271	373.695
11.0	436.714	433.262	423.362	409.853	393.604	386.179	377.869	373.885	371.754
11.5	437.453	434.245	423.464	409.184	391.940	384.516	376.233	371.640	369.260
12.0	437.915	434.951	423.845	409.070	390.831	383.657	374.542	369.700	367.069
12.5	439.512	436.212	423.975	408.401	389.973	381.412	372.602	367.759	365.129
13.0	440.414	436.890	424.159	407.732	388.864	380.026	370.634	365.515	362.411
13.5	441.120	437.792	424.343	407.341	386.923	378.363	368.944	363.270	360.802
14.0	442.462	438.362	424.555	406.699	386.065	376.118	366.449	361.052	358.389
14.5	443.390	438.959	424.158	405.726	384.679	374.732	364.481	358.835	355.921
15.0	443.406	439.252	424.288	405.085	382.711	373.042	362.541	356.617	353.453
15.5	443.982	439.572	424.249	403.834	381.048	371.352	360.296	354.122	352.067
16.0	444.226	440.170	423.933	402.807	379.635	369.411	358.606	351.904	348.714
16.5	445.421	440.767	424.449	402.443	378.249	367.471	356.388	349.964	347.051
17.0	446.730	440.533	424.411	401.192	376.863	365.226	354.421	347.442	345.415
17.5	446.936	441.434	424.068	399.638	374.895	363.813	351.899	345.752	342.615
18.0	447.723	441.200	423.725	398.996	372.955	361.014	349.404	343.257	340.675
18.5	448.787	441.547	423.300	397.800	370.987	359.350	348.268	341.871	338.153
19.0	448.520	441.895	423.207	396.936	369.324	357.106	346.050	339.376	335.658
19.5	449.775	441.937	422.506	395.821	367.356	355.415	343.528	336.881	332.859
20.0	450.394	441.757	422.413	394.348	365.693	353.198	342.420	334.386	330.364
20.5	450.572	442.105	421.461	393.152	364.003	350.953	339.898	331.864	327.565
21.0	450.724	441.898	421.091	391.510	361.508	348.735	337.403	329.370	325.070
21.5	451.180	442.022	420.417	390.673	359.818	347.599	335.185	326.598	322.298
22.0	451.771	441.923	419.770	389.586	357.600	344.827	332.663	324.103	319.499
22.5	452.113	441.825	419.095	388.167	355.355	342.833	330.141	321.608	317.004
23.0	451.873	441.976	418.448	386.721	353.388	340.061	327.646	318.836	314.205
23.5	451.937	441.682	418.051	384.720	350.893	338.952	325.124	316.064	311.433
24.0	452.251	441.638	417.126	383.660	349.230	336.707	322.602	313.542	308.384
24.5	452.430	441.539	416.479	382.046	346.708	334.212	320.108	310.797	305.889
25.0	452.054	441.468	415.277	380.877	345.876	331.663	317.586	307.998	303.090
25.5	451.401	440.842	414.630	379.458	343.909	329.168	315.091	305.226	300.040
26.0	451.580	440.689	413.706	377.207	341.968	326.646	312.292	302.731	297.518
26.5	451.231	439.982	412.808	375.484	339.446	324.151	309.770	299.959	294.442

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CANDELA TABULATION - (Cont.)

27.0	450.605	439.552	412.215	374.065	336.924	321.602	306.998	297.187	291.670
27.5	450.588	439.399	410.541	372.646	334.679	319.107	304.476	294.388	288.871
28.0	450.767	438.691	409.448	370.092	332.185	316.308	301.954	291.616	285.822
28.5	450.033	437.984	408.605	368.923	329.967	313.813	299.182	288.844	283.022
29.0	449.434	437.831	407.762	366.672	327.195	311.291	296.410	285.795	280.250
29.5	449.308	436.570	406.696	364.368	324.673	308.519	293.610	283.022	277.340
30.0	449.095	435.808	405.576	362.922	322.151	305.693	291.116	280.223	274.458
30.5	448.388	435.182	404.455	360.948	319.656	303.198	288.316	277.424	271.685
31.0	448.289	434.752	403.362	358.921	317.161	300.399	285.544	274.624	268.803
31.5	447.691	434.268	401.688	358.029	314.639	297.627	282.772	271.880	265.949
32.0	446.761	433.561	400.872	355.724	311.867	295.105	279.973	269.024	263.204
32.5	446.939	432.576	399.447	354.555	309.345	292.306	277.174	266.252	260.294
33.0	445.428	432.173	398.273	352.582	306.851	289.534	274.374	263.342	257.384
33.5	445.688	430.884	396.821	350.305	304.051	286.735	271.602	260.542	254.584
34.0	445.312	429.927	395.092	348.304	301.279	283.963	268.803	257.798	251.674
34.5	444.436	428.943	393.363	345.999	298.480	281.441	266.003	254.942	248.846
35.0	443.397	427.958	392.216	343.722	295.708	278.586	263.259	252.143	246.102
35.5	442.744	427.278	391.014	341.721	293.213	275.786	260.514	249.315	243.219
36.0	441.700	425.739	389.339	339.444	290.441	272.987	257.714	246.543	240.337
36.5	441.101	424.755	388.165	337.166	287.392	270.187	254.804	243.827	237.482
37.0	440.144	424.074	386.132	334.861	284.593	267.471	252.088	240.972	234.599
37.5	439.295	422.563	384.375	332.584	281.821	264.589	249.316	238.089	231.883
38.0	438.946	421.301	383.255	330.306	279.049	261.789	246.488	235.373	228.945
38.5	437.212	420.344	380.972	328.028	276.222	258.934	243.716	232.546	226.034
39.0	436.363	419.664	379.493	325.474	273.339	256.190	240.889	229.774	223.207
39.5	435.156	418.125	379.705	323.169	270.539	253.390	238.172	226.946	220.407
40.0	434.834	417.167	378.003	320.891	267.656	250.507	235.429	224.175	217.690
40.5	433.154	416.156	376.301	318.336	264.774	247.708	232.573	221.402	214.891
41.0	431.892	414.698	374.545	316.032	261.974	244.908	229.801	218.603	212.037
41.5	430.489	413.437	372.843	313.531	259.036	241.998	226.974	215.886	209.292
42.0	430.140	412.425	370.810	311.281	256.181	239.337	224.202	213.059	206.548
42.5	428.987	411.191	369.081	309.030	253.298	236.510	221.403	210.232	203.831
43.0	427.557	409.097	367.298	306.834	250.415	233.654	218.631	207.571	200.949
43.5	426.877	408.113	365.596	304.333	247.394	230.799	215.775	204.716	198.260
44.0	425.420	406.851	363.617	301.833	244.566	228.000	212.920	201.916	195.626
44.5	424.266	405.617	361.557	299.305	241.628	225.228	210.121	199.173	192.882
45.0	423.418	404.632	359.855	297.028	238.745	222.290	207.349	196.345	190.194
45.5	421.602	402.843	357.849	294.528	235.863	219.462	204.466	193.629	187.367
46.0	421.476	401.609	355.843	292.057	232.925	216.607	201.694	190.884	184.650
46.5	419.796	400.901	354.114	289.557	230.013	213.780	198.839	188.085	182.044
47.0	419.170	400.471	352.107	287.002	226.992	210.953	196.039	185.396	179.412
47.5	418.240	399.318	350.074	284.584	223.999	208.070	193.240	182.624	176.612
48.0	417.114	397.698	348.149	282.167	221.033	205.104	190.495	179.991	173.895
48.5	415.298	396.240	346.062	279.722	218.122	202.221	187.640	177.247	171.206
49.0	414.172	394.702	344.083	277.194	215.212	199.366	184.841	174.586	168.462
49.5	413.073	393.163	342.050	274.666	212.274	196.566	182.096	171.898	165.856
50.0	413.224	391.955	340.016	272.194	209.307	193.712	179.353	169.209	163.112
50.5	411.240	390.416	338.037	269.639	206.369	190.773	176.525	166.658	160.451
51.0	410.864	388.932	336.058	267.168	203.458	187.946	173.781	163.942	157.763
51.5	409.488	387.420	333.748	264.612	200.548	185.035	170.981	161.253	155.157
52.0	408.112	385.604	331.688	261.947	197.582	182.236	168.292	158.620	152.607
52.5	406.932	384.092	329.709	259.448	194.671	179.409	165.549	155.987	149.946
53.0	405.474	382.526	327.425	256.838	191.733	176.526	162.777	153.353	147.257
53.5	404.017	381.042	325.364	254.256	188.878	173.615	160.005	150.748	144.569
54.0	402.668	379.476	323.220	251.618	185.912	170.815	157.260	148.059	142.184
54.5	401.211	377.768	320.992	248.952	183.057	168.043	154.544	145.481	139.552

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CANDELA TABULATION - (Cont.)

55.0	399.807	376.202	318.876	246.370	180.146	165.161	151.800	142.820	136.890
55.5	398.377	374.386	316.786	243.677	177.263	162.251	149.084	140.187	134.340
56.0	396.974	372.874	314.614	241.067	174.325	159.451	146.394	137.664	131.652
56.5	395.625	371.058	312.358	238.346	171.414	156.596	143.595	134.948	129.185
57.0	394.195	369.574	310.132	235.652	168.476	153.796	140.989	132.453	126.745
57.5	392.487	367.785	307.986	232.959	165.593	150.886	138.328	129.765	124.056
58.0	390.976	365.942	305.786	230.183	162.599	148.058	135.584	127.242	121.478
58.5	389.627	364.153	303.532	227.490	159.661	145.258	132.951	124.664	118.873
59.0	388.197	362.418	301.194	224.713	156.667	142.432	130.317	122.058	116.406
59.5	386.516	360.548	299.020	221.937	153.646	139.576	127.712	119.536	113.883
60.0	384.700	358.732	296.683	219.244	150.680	136.694	125.106	116.986	111.333
60.5	383.047	356.943	294.511	216.552	147.741	133.867	122.445	114.463	108.783
61.0	381.617	355.125	292.256	213.914	144.831	131.011	119.784	111.913	106.260
61.5	379.882	353.309	290.001	211.193	141.865	128.239	117.123	109.362	103.710
62.0	377.870	351.382	287.635	208.416	138.953	125.385	114.573	106.813	101.270
62.5	376.163	349.482	285.406	205.696	135.960	122.585	111.912	104.235	98.692
63.0	374.455	347.665	283.180	202.975	133.077	119.702	109.251	101.712	96.225
63.5	372.748	345.655	280.925	200.254	130.138	116.847	106.645	99.217	93.675
64.0	371.068	343.700	278.559	197.534	127.200	114.130	104.011	96.639	91.292
64.5	369.083	341.773	276.333	194.813	124.290	111.303	101.322	94.116	88.990
65.0	367.182	339.846	273.884	191.982	121.352	108.531	98.634	91.621	86.412
65.5	365.254	337.808	271.628	189.178	118.386	105.703	96.056	89.099	83.973
66.0	363.381	335.714	269.346	186.458	115.502	102.876	93.367	86.632	81.589
66.5	361.616	333.705	266.925	183.709	112.620	100.049	90.789	84.082	79.205
67.0	359.632	331.694	264.670	180.961	109.736	97.277	88.266	81.642	76.904
67.5	357.703	329.683	262.248	178.130	106.853	94.560	85.688	79.175	74.493
68.0	355.802	327.591	259.884	175.327	103.832	91.872	83.083	76.736	72.026
68.5	353.789	325.497	257.546	172.551	100.921	89.044	80.477	74.296	69.586
69.0	352.027	323.432	255.097	169.831	98.066	86.355	77.899	71.857	67.341
69.5	350.043	321.422	252.814	167.138	95.211	83.583	75.459	69.473	65.012
70.0	348.168	319.328	250.366	164.445	92.328	80.894	72.937	67.089	62.683
70.5	346.239	317.207	248.000	161.724	89.473	78.151	70.443	64.650	60.272
71.0	344.365	315.114	245.607	158.922	86.590	75.489	67.948	62.349	57.944
71.5	342.462	313.020	243.104	156.230	83.873	72.828	65.509	60.048	55.643
72.0	340.397	310.789	240.766	153.620	81.045	70.167	63.069	57.747	53.536
72.5	338.439	308.751	238.373	150.956	78.024	67.534	60.657	55.530	51.179
73.0	336.401	306.602	236.036	148.374	75.307	64.956	58.301	53.201	48.962
73.5	334.416	304.399	233.671	145.709	72.508	62.461	55.917	50.928	46.689
74.0	332.458	302.278	231.223	143.045	69.763	59.938	53.561	48.765	44.527
74.5	330.337	300.048	228.857	140.408	67.102	57.444	51.260	46.576	42.503
75.0	328.325	297.927	226.384	137.853	64.413	54.949	48.987	44.414	40.314
75.5	326.258	295.724	224.019	135.190	61.779	52.509	46.714	42.196	38.234
76.0	324.164	293.603	221.765	132.581	59.146	50.125	44.413	40.117	36.210
76.5	322.068	291.372	219.346	130.109	56.512	47.769	42.140	37.955	34.215
77.0	319.946	289.280	216.982	127.473	53.961	45.413	40.033	35.931	32.357
77.5	317.824	287.078	214.618	125.030	51.356	43.084	37.844	33.880	30.417
78.0	315.758	284.958	212.336	122.532	48.916	40.756	35.709	31.912	28.532
78.5	313.525	282.757	210.082	120.171	46.449	38.483	33.602	29.971	26.647
79.0	311.431	280.499	207.774	117.674	44.065	36.293	31.523	28.031	24.734
79.5	309.309	278.380	205.520	115.259	41.653	34.131	29.499	26.090	22.988
80.0	307.134	276.233	203.240	112.873	39.269	32.024	27.531	24.261	21.214
80.5	304.958	274.060	200.959	110.623	36.968	29.917	25.591	22.431	19.495
81.0	302.919	271.968	198.844	108.375	34.750	27.865	23.706	20.657	17.721
81.5	300.825	269.711	196.647	106.126	32.587	25.897	21.848	18.911	16.002
82.0	298.704	267.620	194.533	103.878	30.453	23.956	19.991	17.192	14.395
82.5	296.803	265.723	192.447	101.713	28.318	22.099	18.272	15.611	12.869

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CANDELA TABULATION - (Cont.)

83.0	294.738	263.687	190.305	99.685	26.267	20.214	16.553	14.004	11.290
83.5	292.784	261.623	188.220	97.685	24.299	18.384	14.918	12.424	9.765
84.0	290.884	259.671	186.245	95.687	22.386	16.638	13.310	10.899	8.268
84.5	288.929	257.663	184.242	93.688	20.501	14.947	11.675	9.374	6.882
85.0	287.085	255.628	182.268	91.800	18.672	13.311	10.122	7.961	5.634
85.5	285.268	253.759	180.210	89.913	16.870	11.676	8.625	6.602	4.526
86.0	283.452	251.970	178.235	88.108	15.124	10.096	7.183	5.383	3.722
86.5	281.771	250.345	176.454	86.303	13.433	8.570	5.797	4.440	3.167
87.0	280.226	249.210	174.697	84.637	11.825	7.074	4.578	3.691	2.806
87.5	279.115	248.347	173.378	82.915	10.217	5.632	3.718	3.219	2.584
88.0	278.577	247.946	172.437	81.221	8.582	4.218	3.108	2.887	2.472
88.5	278.173	247.654	171.849	79.743	6.946	3.054	2.775	2.637	2.334
89.0	277.932	247.580	171.699	78.728	5.282	2.499	2.581	2.553	2.306
89.5	277.884	247.534	171.575	78.392	3.867	2.305	2.497	2.470	2.278
90.0	277.916	247.515	171.590	78.411	3.308	2.249	2.469	2.470	2.305
90.5	277.702	247.580	171.606	78.569	3.930	2.249	2.469	2.469	2.277
91.0	277.818	247.782	171.813	79.307	5.286	2.275	2.441	2.496	2.277
91.5	277.879	248.151	172.270	80.600	6.915	2.709	2.468	2.469	2.249
92.0	278.217	248.740	173.308	82.143	8.490	3.496	2.549	2.441	2.303
92.5	278.582	249.744	174.732	83.686	10.010	4.772	2.766	2.522	2.358
93.0	279.335	250.998	176.433	85.475	11.530	6.266	3.309	2.631	2.548
93.5	280.309	252.583	178.245	87.072	13.104	7.759	4.232	2.929	2.982
94.0	281.753	254.389	180.109	88.888	14.761	9.279	5.481	3.526	3.824
94.5	283.502	256.223	181.864	90.676	16.444	10.745	6.920	4.477	4.991
95.0	285.334	258.193	183.921	92.464	18.181	12.347	8.386	5.617	6.294
95.5	287.165	260.190	185.895	94.334	19.973	13.976	9.906	7.001	7.788
96.0	289.079	262.050	187.841	96.257	21.819	15.604	11.535	8.495	9.254
96.5	290.937	263.964	189.842	98.263	23.719	17.315	13.137	9.988	10.828
97.0	292.823	265.907	191.843	100.296	25.674	19.025	14.793	11.563	12.430
97.5	294.764	267.903	193.871	102.329	27.711	20.844	16.477	13.219	14.005
98.0	296.647	269.899	195.900	104.497	29.719	22.691	18.160	14.821	15.606
98.5	298.642	271.949	198.038	106.692	31.865	24.591	19.924	16.504	17.344
99.0	300.608	274.027	200.175	108.860	34.091	26.627	21.744	18.214	19.082
99.5	302.575	276.049	202.339	111.137	36.317	28.636	23.616	20.007	20.901
100.0	304.541	278.127	204.558	113.440	38.597	30.754	25.490	21.799	22.639
100.5	306.508	280.231	206.749	115.744	40.932	32.872	27.445	23.590	24.485
101.0	308.583	282.280	208.995	118.129	43.322	34.989	29.481	25.437	26.304
101.5	310.495	284.328	211.212	120.487	45.738	37.270	31.490	27.310	28.231
102.0	312.570	286.461	213.538	122.899	48.208	39.387	33.581	29.238	30.214
102.5	314.563	288.510	215.782	125.284	50.679	41.777	35.671	31.220	32.169
103.0	316.612	290.614	218.054	127.696	53.259	44.600	37.816	33.201	34.178
103.5	318.659	292.691	220.352	130.162	55.865	46.935	39.988	35.238	36.160
104.0	320.708	294.766	222.679	132.683	58.417	48.917	42.160	37.302	38.277
104.5	322.700	296.952	224.976	135.149	61.024	51.415	44.441	39.419	40.395
105.0	324.803	299.001	227.248	137.615	63.739	53.804	46.695	41.564	42.540
105.5	326.605	301.105	229.600	140.136	66.427	56.329	48.975	43.709	44.685
106.0	328.678	303.208	231.871	142.684	69.141	59.153	51.310	45.881	46.884
106.5	330.617	305.230	234.142	145.259	71.938	62.085	53.672	48.081	49.056
107.0	332.638	307.306	236.440	147.752	74.680	64.230	56.007	50.333	51.418
107.5	334.658	309.409	238.711	150.327	77.477	66.537	58.451	52.560	53.617
108.0	336.596	311.457	241.064	152.956	80.274	69.144	60.840	54.949	55.925
108.5	338.507	313.506	243.389	155.586	83.125	71.805	63.256	57.229	58.206
109.0	340.554	315.473	245.688	158.188	85.948	74.438	65.754	59.619	60.541
109.5	342.437	317.659	247.985	160.762	88.772	77.099	68.225	61.927	62.849
110.0	344.403	319.571	250.230	163.446	91.650	79.787	70.669	64.316	65.266
110.5	346.314	321.621	252.391	166.075	94.527	82.475	73.193	66.705	67.628

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CANDELA TABULATION - (Cont.)

111.0	348.252	323.534	254.661	168.705	97.432	85.190	75.718	69.122	70.044
111.5	350.137	325.528	256.961	171.388	100.337	87.905	78.216	71.566	72.352
112.0	351.939	327.523	259.203	174.044	103.242	90.647	80.795	74.009	74.686
112.5	353.877	329.491	261.502	176.755	106.230	93.444	83.402	76.425	77.076
113.0	355.624	331.459	263.773	179.411	109.107	96.240	85.954	78.842	79.519
113.5	357.535	333.399	266.016	182.176	112.012	99.064	88.587	81.340	82.017
114.0	359.364	335.256	268.259	184.832	114.999	101.834	91.276	83.810	84.461
114.5	361.166	337.169	270.503	187.516	117.877	104.684	94.479	86.363	86.904
115.0	362.859	339.110	272.746	190.227	120.809	107.508	97.900	88.888	89.402
115.5	364.581	341.023	274.962	192.910	123.769	110.386	100.343	91.358	91.819
116.0	366.436	342.800	277.234	195.593	126.728	113.210	102.027	93.883	94.452
116.5	368.104	344.713	279.367	198.277	129.633	116.033	104.362	96.408	96.923
117.0	369.959	346.627	281.666	200.987	132.593	118.966	107.458	98.987	99.503
117.5	371.599	348.376	283.827	203.643	135.607	121.763	110.933	101.458	101.946
118.0	373.238	350.261	286.016	206.354	138.484	124.695	113.701	104.065	104.498
118.5	374.795	352.011	288.314	209.010	141.471	127.573	115.603	106.535	107.023
119.0	376.462	353.706	290.449	211.721	144.431	130.397	117.721	109.196	109.630
119.5	378.129	355.673	292.637	214.377	147.390	133.193	120.327	111.748	112.073
120.0	379.714	357.451	294.799	217.006	150.404	136.044	122.988	114.355	114.789
120.5	381.325	359.174	296.961	219.581	153.337	138.949	125.676	116.934	117.286
121.0	382.937	360.869	299.150	222.264	156.187	141.773	128.336	119.568	119.839
121.5	384.577	362.647	301.258	224.865	159.174	144.569	130.997	122.690	122.391
122.0	385.917	364.370	303.420	227.549	162.133	147.394	133.767	126.247	124.997
122.5	387.585	365.765	305.500	230.151	165.038	150.190	136.427	129.288	127.631
123.0	389.224	367.544	307.634	232.752	167.971	153.068	139.143	131.297	130.237
123.5	390.864	369.211	309.797	235.327	170.930	155.865	141.858	133.714	132.925
124.0	392.232	370.690	311.958	237.901	173.808	158.716	144.601	136.863	136.537
124.5	393.871	372.385	314.037	240.530	176.768	161.594	147.316	139.524	141.234
125.0	395.295	374.135	316.200	243.131	179.646	164.336	150.085	141.316	144.247
125.5	396.635	375.587	318.334	245.734	182.605	167.187	152.800	143.217	145.659
126.0	398.247	377.309	320.333	248.226	185.483	170.010	155.542	145.741	146.148
126.5	399.587	378.816	322.466	250.774	188.361	172.780	158.230	148.348	148.429
127.0	401.011	380.539	324.738	253.321	191.293	175.658	160.945	150.982	151.035
127.5	402.407	381.990	326.682	255.788	194.198	178.455	163.688	153.589	153.669
128.0	403.747	383.469	328.571	258.362	197.049	181.332	166.458	156.222	156.357
128.5	405.143	385.192	330.815	260.909	200.009	184.211	169.091	158.884	158.990
129.0	406.539	386.671	332.759	263.402	202.941	187.007	171.942	161.598	161.678
129.5	406.522	388.122	334.704	265.923	205.846	189.831	174.738	164.232	164.366
130.0	407.945	389.573	336.948	268.443	208.724	192.654	177.508	166.866	167.054
130.5	408.798	391.024	338.864	270.991	211.603	195.533	180.278	169.499	169.769
131.0	410.138	392.176	340.809	273.456	214.535	198.356	182.965	172.160	172.430
131.5	410.476	393.439	342.754	275.949	217.494	201.153	185.707	174.875	175.119
132.0	412.603	394.619	344.698	278.415	220.399	203.949	188.531	177.563	177.888
132.5	414.027	395.771	346.643	280.881	223.359	206.800	191.273	180.251	180.574
133.0	414.636	396.763	348.587	283.293	226.291	209.597	194.124	182.885	183.264
133.5	415.976	397.671	350.532	285.786	229.142	212.448	196.866	185.926	185.952
134.0	417.915	399.421	352.448	288.307	232.020	215.299	199.690	188.586	188.722
134.5	418.496	400.601	354.121	290.772	234.925	218.068	202.487	191.302	191.382
135.0	419.864	402.351	356.066	293.293	237.830	220.973	205.228	194.044	194.234
135.5	421.559	403.232	358.010	295.487	240.736	223.824	208.053	196.814	196.867
136.0	422.113	404.439	359.872	298.008	243.614	226.675	210.795	199.447	199.636
136.5	424.024	405.647	361.600	300.446	246.464	229.417	213.564	202.190	202.269
137.0	424.062	407.070	363.245	302.939	249.370	232.295	216.361	204.878	205.148
137.5	425.646	408.549	365.218	305.188	252.194	235.174	219.048	207.565	207.863
138.0	426.228	409.458	366.265	307.598	255.043	237.942	221.789	210.252	210.411
138.5	427.895	411.208	367.694	309.820	257.786	240.738	224.586	213.104	213.318

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CANDELA TABULATION - (Cont.)

139.0	428.831	411.873	369.638	312.286	260.609	243.453	227.329	215.792	216.088
139.5	429.601	413.025	371.012	314.452	263.461	246.304	230.071	218.534	218.831
140.0	430.453	414.260	372.713	316.646	266.258	249.019	232.732	221.222	221.546
140.5	431.877	415.495	373.571	319.084	269.082	251.844	235.556	224.046	224.479
141.0	432.702	416.675	374.973	321.250	271.960	254.586	238.352	226.924	227.357
141.5	433.826	417.096	376.917	323.688	274.811	257.355	241.095	229.748	230.153
142.0	434.463	418.602	378.291	325.882	277.526	260.125	243.836	232.571	232.977
142.5	435.316	419.782	379.992	328.048	280.241	262.840	246.551	235.259	235.800
143.0	436.656	420.662	381.366	330.270	282.956	265.609	249.266	237.974	238.597
143.5	437.808	421.327	382.767	332.491	285.942	268.433	252.090	240.852	241.421
144.0	437.304	422.291	384.440	334.713	288.685	271.202	254.804	243.675	244.244
144.5	438.783	423.526	385.842	336.907	291.428	273.808	257.574	246.471	247.067
145.0	440.151	424.462	386.972	338.885	294.143	276.523	260.289	249.186	250.000
145.5	440.217	425.398	388.916	341.107	296.858	279.266	263.003	251.983	252.715
146.0	441.042	426.007	390.018	343.085	299.329	281.981	265.664	254.698	255.512
146.5	442.549	427.242	391.448	344.492	302.044	284.696	268.352	257.466	258.308
147.0	443.158	427.851	392.822	346.442	304.759	287.411	271.148	260.208	261.131
147.5	444.310	429.114	393.979	347.877	307.230	290.181	273.836	262.977	263.846
148.0	444.320	429.235	395.381	349.556	309.945	292.868	276.551	265.746	266.697
148.5	444.414	429.900	396.239	351.777	312.416	295.312	279.294	268.516	269.467
149.0	445.239	431.135	397.641	353.728	315.159	297.783	281.981	271.230	272.290
149.5	445.660	430.714	398.499	355.163	317.602	300.526	284.696	273.864	275.005
150.0	445.914	431.893	399.901	357.412	320.046	303.241	287.411	276.579	277.992
150.5	446.795	432.558	401.602	359.118	322.489	305.712	290.126	279.565	280.706
151.0	446.833	433.222	401.945	361.096	324.960	308.155	292.597	282.252	283.665
151.5	447.741	433.372	403.618	362.775	327.432	310.870	295.312	284.995	286.408
152.0	447.807	433.792	404.233	364.753	329.903	313.342	298.027	287.682	289.367
152.5	447.574	434.457	405.390	366.188	332.346	315.785	300.770	290.397	292.109
153.0	447.640	434.578	406.548	368.166	334.546	318.256	303.185	292.841	294.824
153.5	448.521	435.270	407.407	369.872	335.931	320.700	305.928	295.827	297.539
154.0	448.044	435.691	408.021	371.850	338.646	323.442	308.371	298.514	300.553
154.5	448.653	435.840	408.581	373.285	340.547	325.614	311.086	301.229	303.296
155.0	449.234	436.233	409.683	374.720	342.203	328.113	313.558	303.673	305.983
155.5	449.056	436.139	410.458	376.454	344.132	330.529	316.273	306.388	308.726
156.0	448.280	436.559	410.962	377.862	346.575	333.028	318.744	309.103	311.413
156.5	448.889	437.008	411.521	379.596	348.503	334.385	321.187	311.790	313.857
157.0	449.171	436.858	412.352	381.058	350.703	336.857	323.631	314.233	316.600
157.5	447.924	437.035	412.911	382.194	352.603	339.029	326.373	316.948	319.314
158.0	448.006	436.397	413.554	383.629	354.532	341.201	328.817	319.663	322.029
158.5	447.280	436.574	413.925	384.820	356.704	342.857	330.989	322.107	324.473
159.0	446.531	436.751	414.567	386.255	358.632	345.029	332.618	324.550	327.188
159.5	447.251	436.900	414.938	387.718	360.261	347.473	335.904	327.265	329.631
160.0	446.364	436.750	415.337	388.881	362.460	349.401	337.261	329.709	332.346
160.5	445.727	436.572	416.007	389.801	364.117	351.601	339.732	332.152	334.818
161.0	445.953	436.611	416.406	390.992	365.475	353.501	341.633	334.053	337.505
161.5	445.427	435.619	417.048	392.156	367.647	355.673	343.289	336.496	339.677
162.0	445.066	435.197	416.389	393.347	369.004	357.601	345.733	338.940	340.707
162.5	444.046	434.532	417.330	393.723	371.204	359.801	347.633	340.840	343.095
163.0	443.758	434.980	417.214	395.186	372.589	361.973	350.376	342.741	345.184
163.5	443.253	434.099	417.369	395.806	374.489	363.630	352.276	345.184	347.600
164.0	443.402	434.087	417.767	396.726	375.847	365.259	354.177	347.356	349.744
164.5	442.521	433.234	417.651	397.347	377.504	367.159	356.648	349.827	352.675
165.0	441.667	433.195	417.806	398.266	379.133	369.331	358.820	351.728	354.847
165.5	440.271	431.798	417.717	399.158	380.789	370.716	360.449	353.628	356.748
166.0	440.259	431.271	417.573	400.078	382.147	372.345	362.377	356.072	359.407
166.5	439.649	430.717	417.755	400.998	383.233	374.273	364.522	358.244	361.851

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167.0	438.984	430.163	417.395	400.859	384.618	375.631	366.721	360.172	364.023
167.5	437.804	429.121	417.306	401.535	385.732	377.260	368.079	362.643	365.923
168.0	435.919	428.322	417.217	402.211	387.089	378.917	370.278	364.815	368.123
168.5	435.637	427.685	417.128	402.914	388.447	380.546	372.478	367.015	370.267
169.0	433.996	426.748	416.496	402.504	389.832	382.175	373.808	368.644	372.140
169.5	433.170	425.734	416.408	403.424	390.619	383.261	375.980	371.087	373.741
170.0	432.344	424.692	416.047	403.584	391.433	384.917	377.637	372.716	375.913
170.5	431.546	424.221	415.172	404.017	392.275	386.275	379.022	374.644	377.841
171.0	429.878	423.234	415.382	404.205	392.818	387.632	380.407	376.545	379.498
171.5	428.565	422.248	414.207	404.393	394.204	388.474	382.064	378.501	381.670
172.0	427.850	421.017	414.174	404.825	395.317	389.832	383.693	379.587	383.243
172.5	426.564	419.815	413.298	404.742	396.104	391.189	385.322	381.759	385.388
173.0	424.763	418.828	412.478	404.687	396.675	392.547	386.951	383.388	386.446
173.5	423.804	417.598	412.228	405.174	397.190	393.090	388.308	384.745	388.374
174.0	422.790	416.639	411.137	405.119	397.462	394.447	389.394	386.402	390.247
174.5	421.205	414.894	410.372	405.063	398.304	395.805	390.724	388.031	391.061
175.0	419.620	413.691	409.607	404.493	399.118	396.619	391.810	389.361	392.663
175.5	418.063	412.544	408.870	405.036	399.634	397.135	393.195	390.746	393.749
176.0	417.647	411.424	408.161	405.008	400.204	398.248	394.525	392.131	395.948
176.5	415.386	409.817	407.479	404.764	400.448	398.791	396.182	393.516	396.791
177.0	414.211	408.809	406.310	404.764	400.503	399.606	396.453	394.846	398.148
177.5	412.466	407.285	405.983	404.221	401.019	399.877	397.810	395.932	398.935
178.0	410.831	406.360	405.412	404.221	401.290	400.692	398.597	397.589	401.134
178.5	409.091	404.675	404.598	403.950	401.290	401.506	399.412	398.647	402.464
179.0	407.922	404.105	403.512	403.950	401.562	401.778	400.797	399.733	403.007
179.5	406.808	403.046	402.969	403.407	401.562	402.321	401.340	400.575	405.207
180.0	402.587	402.587	402.587	402.587	402.587	402.587	402.587	402.587	402.587

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-840U-L13-840D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	149.47	N.A.	5.50
0-30	317.51	N.A.	11.70
0-40	520.84	N.A.	19.20
0-60	943.35	N.A.	34.70
0-80	1263.43	N.A.	46.50
0-90	1363.97	N.A.	50.20
10-90	1325.36	N.A.	48.80
20-40	371.37	N.A.	13.70
20-50	586.95	N.A.	21.60
40-70	602.41	N.A.	22.20
60-80	320.08	N.A.	11.80
70-80	140.18	N.A.	5.20
80-90	100.54	N.A.	3.70
90-110	239.82	N.A.	8.80
90-120	418.45	N.A.	15.40
90-130	623.91	N.A.	23.00
90-150	1039.35	N.A.	38.20
90-180	1353.33	N.A.	49.80
110-180	1113.51	N.A.	41.00
0-180	2717.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.61
10-20	110.86
20-30	168.04
30-40	203.32
40-50	215.59
50-60	206.93
60-70	179.90
70-80	140.18
80-90	100.54
90-100	100.40
100-110	139.42
110-120	178.63
120-130	205.47
130-140	213.94
140-150	201.49
150-160	166.25
160-170	109.56
170-180	38.18

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-2-00-L13-840U-L13-840D-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	19.6	20.5	20.5	21.4	22.7	13.7	14.6	14.6	15.5	16.8
	3H	22.6	23.4	23.6	24.4	25.7	15.0	15.9	16.0	16.8	18.1
	4H	24.2	24.9	25.1	25.9	27.2	15.5	16.2	16.4	17.2	18.5
	6H	25.8	26.5	26.8	27.5	28.8	15.7	16.4	16.7	17.4	18.7
	8H	26.6	27.3	27.6	28.3	29.7	15.7	16.4	16.7	17.4	18.8
	12H	27.6	28.2	28.6	29.2	30.6	15.8	16.4	16.8	17.4	18.8

UGR Viewed Endwise

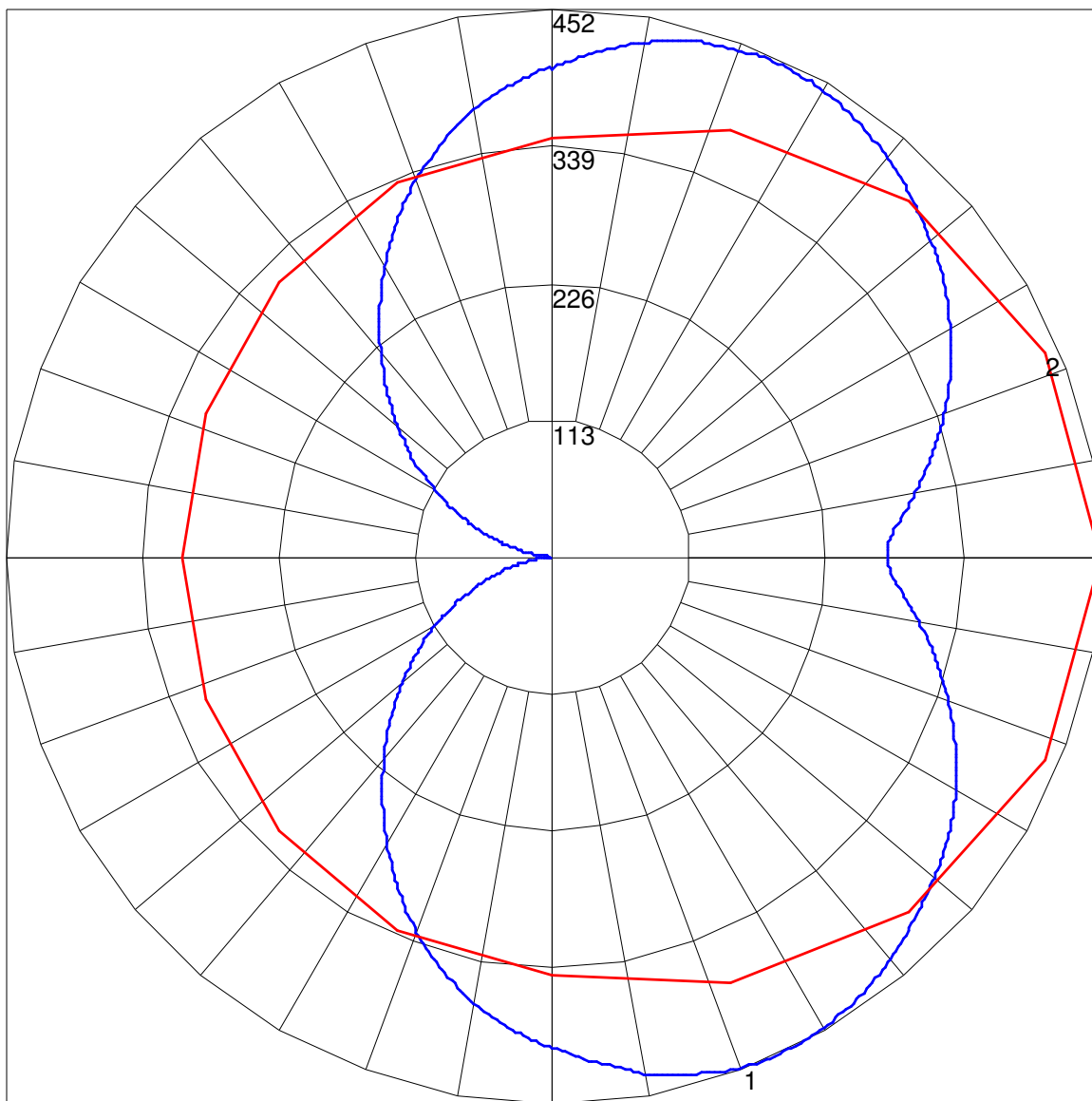
4H	2H	19.9	20.6	20.8	21.6	22.9	14.9	15.7	15.9	16.7	18.0
	3H	23.1	23.8	24.1	24.8	26.1	16.5	17.2	17.5	18.2	19.5
	4H	24.8	25.5	25.8	26.5	27.8	17.1	17.7	18.1	18.7	20.1
	6H	26.7	27.2	27.7	28.3	29.6	17.5	18.0	18.5	19.1	20.4
	8H	27.7	28.2	28.7	29.2	30.5	17.6	18.1	18.6	19.1	20.5
	12H	28.7	29.2	29.7	30.2	31.5	17.6	18.1	18.7	19.1	20.5

8H	4H	25.0	25.5	26.0	26.5	27.9	18.2	18.7	19.2	19.7	21.1
	6H	27.0	27.4	28.0	28.5	29.8	18.8	19.2	19.9	20.3	21.7
	8H	28.1	28.5	29.2	29.5	30.9	19.1	19.4	20.1	20.5	21.8
	12H	29.4	29.7	30.4	30.7	32.1	19.2	19.5	20.2	20.6	22.0

12H	4H	25.0	25.4	26.0	26.4	27.8	18.5	19.0	19.6	20.0	21.4
	6H	27.0	27.4	28.1	28.4	29.8	19.3	19.7	20.4	20.8	22.1
	8H	28.2	28.5	29.2	29.6	31.0	19.7	20.0	20.7	21.0	22.4

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 452.43 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.)