

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-830U-L13-830D-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-2-00-L13-830U-L13-830D-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	2612
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	10788	10053	9481
55	10724	9582	8584
65	10743	9205	7514
75	10929	8940	5950
85	11489	9058	3611

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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	390.872	390.872	390.872	390.872	390.872	390.872	390.872	390.872	390.872
0.5	391.421	392.074	391.347	392.836	390.172	392.199	389.566	389.545	389.582
1.0	392.487	393.004	392.784	393.155	389.931	391.614	388.448	388.427	388.491
1.5	393.898	394.252	393.207	394.006	389.931	390.522	387.863	387.069	386.626
2.0	395.094	395.793	394.163	394.084	389.639	389.696	386.797	385.977	385.534
2.5	396.823	396.853	395.437	394.429	389.372	389.164	385.731	385.178	384.494
3.0	397.967	398.446	396.445	394.507	389.106	388.631	384.932	383.579	383.136
3.5	399.482	399.851	397.187	395.411	389.106	387.539	383.600	382.488	382.336
4.0	401.477	401.256	398.461	395.489	388.547	386.473	383.067	381.155	380.471
4.5	402.381	402.421	399.470	395.327	388.281	386.207	381.735	379.823	378.847
5.0	402.882	403.878	400.342	396.205	387.748	384.874	380.136	378.465	377.274
5.5	404.742	405.069	400.629	396.309	386.948	383.542	379.337	377.133	376.475
6.0	405.990	406.019	401.396	396.147	386.389	383.250	378.271	376.041	374.850
6.5	406.998	407.821	402.190	396.011	385.883	382.210	376.887	374.150	373.278
7.0	408.007	408.960	402.718	396.064	385.590	381.359	375.555	372.525	371.386
7.5	409.035	409.910	403.271	395.954	384.232	380.026	373.956	371.193	369.521
8.0	411.014	410.594	403.955	395.259	383.432	378.694	372.624	369.568	367.656
8.5	412.768	411.597	404.639	395.656	383.166	377.895	371.266	367.969	365.817
9.0	415.165	412.651	405.245	395.227	381.834	376.537	369.641	365.812	363.952
9.5	416.350	413.570	405.610	395.358	381.008	374.938	368.042	364.187	363.419
10.0	417.671	414.996	405.949	394.981	380.209	373.846	366.710	362.588	360.489
10.5	418.966	415.836	406.555	394.579	378.877	372.540	365.085	360.697	359.182
11.0	419.755	416.437	406.920	393.936	378.318	371.182	363.194	359.365	357.317
11.5	420.465	417.382	407.019	393.293	376.719	369.583	361.622	357.208	354.919
12.0	420.908	418.060	407.385	393.184	375.654	368.758	359.997	355.342	352.814
12.5	422.444	419.271	407.510	392.541	374.828	366.600	358.132	353.477	350.949
13.0	423.310	419.924	407.687	391.898	373.762	365.268	356.241	351.320	348.337
13.5	423.989	420.790	407.864	391.522	371.897	363.669	354.616	349.162	346.790
14.0	425.279	421.338	408.067	390.905	371.072	361.512	352.218	347.031	344.471
14.5	426.171	421.912	407.685	389.970	369.740	360.180	350.327	344.899	342.099
15.0	426.186	422.194	407.810	389.353	367.849	358.555	348.462	342.768	339.727
15.5	426.740	422.502	407.773	388.152	366.250	356.930	346.304	340.370	338.395
16.0	426.975	423.076	407.470	387.164	364.892	355.065	344.680	338.238	335.172
16.5	428.123	423.650	407.966	386.814	363.559	353.200	342.548	336.373	333.573
17.0	429.381	423.425	407.929	385.612	362.227	351.042	340.657	333.949	332.000
17.5	429.579	424.291	407.599	384.118	360.336	349.684	338.233	332.324	329.310
18.0	430.336	424.066	407.269	383.501	358.471	346.994	335.835	329.927	327.445
18.5	431.359	424.400	406.862	382.352	356.580	345.395	334.743	328.594	325.021
19.0	431.102	424.734	406.772	381.521	354.981	343.237	332.612	326.196	322.623
19.5	432.308	424.775	406.098	380.450	353.090	341.613	330.187	323.798	319.932
20.0	432.903	424.602	406.009	379.034	351.492	339.481	329.122	321.401	317.534
20.5	433.074	424.936	405.094	377.884	349.867	337.324	326.698	318.977	314.844
21.0	433.220	424.736	404.738	376.306	347.469	335.192	324.300	316.579	312.446
21.5	433.658	424.856	404.090	375.501	345.844	334.100	322.168	313.914	309.782
22.0	434.227	424.761	403.468	374.456	343.713	331.436	319.744	311.516	307.091
22.5	434.555	424.666	402.820	373.092	341.555	329.519	317.320	309.118	304.693
23.0	434.324	424.812	402.198	371.703	339.664	326.854	314.922	306.454	302.003
23.5	434.386	424.529	401.816	369.780	337.266	325.789	312.498	303.790	299.338
24.0	434.688	424.487	400.927	368.761	335.667	323.631	310.074	301.366	296.408
24.5	434.860	424.392	400.305	367.209	333.243	321.233	307.676	298.727	294.010
25.0	434.499	424.323	399.150	366.085	332.444	318.783	305.252	296.037	291.319
25.5	433.871	423.722	398.528	364.722	330.553	316.385	302.854	293.372	288.388
26.0	434.043	423.575	397.639	362.559	328.688	313.961	300.164	290.974	285.964
26.5	433.708	422.895	396.777	360.902	326.264	311.563	297.740	288.310	283.007

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CANDELA TABULATION - (Cont.)

27.0	433.106	422.482	396.207	359.539	323.840	309.113	295.075	285.646	280.343
27.5	433.090	422.335	394.597	358.175	321.682	306.715	292.651	282.955	277.653
28.0	433.261	421.655	393.547	355.719	319.284	304.024	290.227	280.291	274.722
28.5	432.556	420.975	392.737	354.596	317.153	301.626	287.563	277.627	272.031
29.0	431.980	420.828	391.926	352.433	314.488	299.202	284.899	274.696	269.367
29.5	431.859	419.615	390.902	350.217	312.064	296.538	282.208	272.031	266.569
30.0	431.655	418.884	389.825	348.828	309.640	293.822	279.810	269.341	263.800
30.5	430.975	418.282	388.748	346.931	307.242	291.424	277.120	266.650	261.135
31.0	430.880	417.869	387.698	344.982	304.844	288.733	274.455	263.959	258.364
31.5	430.305	417.403	386.088	344.125	302.420	286.069	271.791	261.321	255.620
32.0	429.411	416.723	385.304	341.910	299.756	283.645	269.101	258.576	252.982
32.5	429.582	415.777	383.935	340.786	297.332	280.954	266.409	255.912	250.186
33.0	428.129	415.390	382.806	338.890	294.934	278.290	263.718	253.115	247.388
33.5	428.379	414.151	381.410	336.701	292.244	275.599	261.054	250.424	244.697
34.0	428.018	413.231	379.749	334.778	289.579	272.935	258.364	247.786	241.900
34.5	427.176	412.285	378.087	332.563	286.889	270.511	255.673	245.042	239.182
35.0	426.178	411.338	376.984	330.373	284.224	267.767	253.035	242.351	236.545
35.5	425.550	410.685	375.829	328.451	281.826	265.076	250.397	239.633	233.774
36.0	424.546	409.206	374.219	326.261	279.162	262.385	247.706	236.969	231.003
36.5	423.971	408.259	373.090	324.072	276.231	259.695	244.909	234.358	228.259
37.0	423.051	407.606	371.136	321.857	273.541	257.084	242.298	231.614	225.488
37.5	422.235	406.153	369.448	319.668	270.876	254.313	239.634	228.843	222.877
38.0	421.900	404.940	368.372	317.479	268.212	251.622	236.916	226.232	220.054
38.5	420.233	404.020	366.177	315.289	265.495	248.878	234.252	223.515	217.256
39.0	419.417	403.366	364.755	312.834	262.724	246.241	231.534	220.850	214.539
39.5	418.256	401.887	364.959	310.619	260.033	243.550	228.923	218.133	211.847
40.0	417.947	400.967	363.323	308.429	257.262	240.779	226.286	215.469	209.236
40.5	416.332	399.994	361.687	305.974	254.492	238.088	223.541	212.804	206.545
41.0	415.120	398.594	360.000	303.759	251.800	235.397	220.877	210.113	203.802
41.5	413.771	397.381	358.364	301.355	248.976	232.600	218.159	207.502	201.164
42.0	413.436	396.409	356.409	299.192	246.232	230.042	215.495	204.785	198.527
42.5	412.328	395.222	354.748	297.029	243.461	227.325	212.804	202.068	195.915
43.0	410.953	393.210	353.034	294.918	240.691	224.580	210.140	199.510	193.145
43.5	410.299	392.264	351.398	292.515	237.786	221.836	207.396	196.766	190.560
44.0	408.898	391.051	349.496	290.111	235.069	219.146	204.651	194.075	188.029
44.5	407.790	389.864	347.516	287.682	232.245	216.481	201.961	191.438	185.392
45.0	406.974	388.918	345.880	285.493	229.474	213.658	199.297	188.720	182.807
45.5	405.229	387.199	343.952	283.090	226.703	210.939	196.526	186.109	180.090
46.0	405.108	386.012	342.023	280.715	223.879	208.195	193.861	183.471	177.479
46.5	403.493	385.332	340.362	278.312	221.081	205.478	191.117	180.781	174.975
47.0	402.891	384.919	338.433	275.856	218.177	202.760	188.426	178.196	172.444
47.5	401.997	383.811	336.479	273.533	215.300	199.989	185.736	175.532	169.753
48.0	400.915	382.253	334.629	271.209	212.449	197.139	183.097	173.001	167.142
48.5	399.170	380.853	332.623	268.859	209.651	194.368	180.353	170.364	164.558
49.0	398.087	379.373	330.720	266.429	206.854	191.624	177.662	167.806	161.920
49.5	397.031	377.894	328.766	263.999	204.030	188.933	175.025	165.222	159.415
50.0	397.177	376.734	326.812	261.623	201.179	186.189	172.388	162.638	156.778
50.5	395.269	375.255	324.910	259.168	198.355	183.365	169.670	160.186	154.220
51.0	394.908	373.828	323.008	256.792	195.557	180.647	167.032	157.575	151.636
51.5	393.586	372.375	320.787	254.336	192.760	177.850	164.341	154.991	149.132
52.0	392.263	370.629	318.806	251.775	189.909	175.159	161.757	152.460	146.681
52.5	391.129	369.176	316.904	249.372	187.111	172.441	159.120	149.929	144.123
53.0	389.728	367.671	314.710	246.863	184.287	169.670	156.455	147.398	141.538
53.5	388.327	366.244	312.729	244.382	181.543	166.873	153.791	144.893	138.955
54.0	387.030	364.739	310.668	241.846	178.692	164.182	151.153	142.309	136.663
54.5	385.630	363.098	308.526	239.284	175.948	161.517	148.542	139.832	134.133

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CANDELA TABULATION - (Cont.)

55.0	384.281	361.592	306.492	236.802	173.150	158.747	145.905	137.274	131.574
55.5	382.906	359.847	304.483	234.213	170.379	155.950	143.294	134.743	129.123
56.0	381.558	358.394	302.396	231.705	167.555	153.258	140.709	132.318	126.539
56.5	380.261	356.648	300.228	229.090	164.757	150.515	138.019	129.707	124.168
57.0	378.886	355.221	298.088	226.501	161.933	147.823	135.514	127.310	121.823
57.5	377.245	353.502	296.025	223.912	159.162	145.027	132.956	124.725	119.239
58.0	375.792	351.730	293.911	221.244	156.285	142.308	130.319	122.301	116.761
58.5	374.496	350.011	291.745	218.655	153.461	139.617	127.788	119.823	114.256
59.0	373.121	348.344	289.497	215.987	150.583	136.900	125.256	117.318	111.885
59.5	371.506	346.546	287.408	213.318	147.679	134.156	122.752	114.894	109.461
60.0	369.760	344.800	285.161	210.730	144.828	131.386	120.247	112.442	107.009
60.5	368.171	343.081	283.074	208.142	142.004	128.668	117.690	110.018	104.558
61.0	366.797	341.334	280.906	205.606	139.206	125.924	115.132	107.567	102.133
61.5	365.129	339.589	278.739	202.991	136.355	123.259	112.575	105.115	99.682
62.0	363.196	337.736	276.465	200.323	133.557	120.515	110.123	102.665	97.338
62.5	361.555	335.910	274.323	197.708	130.680	117.824	107.566	100.187	94.860
63.0	359.913	334.163	272.183	195.093	127.909	115.053	105.008	97.762	92.488
63.5	358.272	332.231	270.016	192.477	125.084	112.309	102.503	95.364	90.037
64.0	356.657	330.352	267.741	189.862	122.260	109.698	99.972	92.886	87.746
64.5	354.750	328.500	265.601	187.247	119.463	106.980	97.388	90.461	85.534
65.0	352.922	326.648	263.248	184.526	116.639	104.316	94.803	88.063	83.057
65.5	351.070	324.689	261.080	181.831	113.788	101.598	92.325	85.639	80.712
66.0	349.269	322.677	258.886	179.217	111.017	98.881	89.741	83.268	78.421
66.5	347.573	320.745	256.559	176.575	108.246	96.164	87.264	80.816	76.129
67.0	345.666	318.813	254.391	173.934	105.475	93.499	84.838	78.472	73.918
67.5	343.812	316.880	252.064	171.212	102.703	90.888	82.361	76.100	71.600
68.0	341.984	314.869	249.791	168.518	99.800	88.304	79.857	73.756	69.228
68.5	340.050	312.857	247.544	165.850	97.002	85.586	77.352	71.411	66.884
69.0	338.356	310.872	245.190	163.235	94.258	83.002	74.874	69.066	64.726
69.5	336.449	308.940	242.996	160.647	91.513	80.337	72.529	66.775	62.488
70.0	334.647	306.927	240.643	158.059	88.742	77.753	70.105	64.484	60.249
70.5	332.792	304.889	238.369	155.444	85.999	75.116	67.707	62.139	57.931
71.0	330.991	302.876	236.069	152.750	83.227	72.558	65.309	59.928	55.693
71.5	329.163	300.864	233.664	150.163	80.616	70.000	62.965	57.716	53.482
72.0	327.178	298.720	231.416	147.654	77.898	67.442	60.620	55.505	51.457
72.5	325.296	296.760	229.116	145.093	74.994	64.911	58.302	53.373	49.192
73.0	323.337	294.695	226.869	142.612	72.383	62.433	56.037	51.135	47.060
73.5	321.429	292.577	224.597	140.050	69.692	60.035	53.746	48.950	44.876
74.0	319.547	290.539	222.244	137.489	67.054	57.611	51.481	46.872	42.798
74.5	317.509	288.396	219.970	134.956	64.496	55.213	49.270	44.767	40.853
75.0	315.574	286.357	217.592	132.500	61.912	52.815	47.085	42.689	38.748
75.5	313.588	284.239	215.320	129.940	59.380	50.470	44.899	40.558	36.749
76.0	311.575	282.201	213.153	127.433	56.849	48.179	42.689	38.559	34.804
76.5	309.560	280.057	210.828	125.056	54.318	45.914	40.504	36.481	32.886
77.0	307.521	278.046	208.555	122.523	51.866	43.649	38.478	34.536	31.101
77.5	305.481	275.929	206.283	120.174	49.361	41.411	36.374	32.564	29.236
78.0	303.495	273.892	204.090	117.773	47.017	39.173	34.322	30.673	27.424
78.5	301.349	271.776	201.923	115.504	44.645	36.988	32.297	28.807	25.612
79.0	299.337	269.606	199.705	113.104	42.353	34.884	30.299	26.942	23.774
79.5	297.297	267.569	197.538	110.783	40.035	32.805	28.354	25.077	22.095
80.0	295.207	265.505	195.347	108.489	37.744	30.780	26.462	23.319	20.390
80.5	293.115	263.417	193.155	106.327	35.532	28.755	24.597	21.560	18.738
81.0	291.155	261.407	191.122	104.166	33.400	26.783	22.785	19.855	17.033
81.5	289.143	259.237	189.011	102.005	31.322	24.891	20.999	18.176	15.381
82.0	287.104	257.227	186.978	99.844	29.270	23.026	19.215	16.524	13.836
82.5	285.276	255.404	184.973	97.763	27.219	21.241	17.562	15.005	12.370

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CANDELA TABULATION - (Cont.)

83.0	283.292	253.447	182.915	95.814	25.247	19.429	15.910	13.460	10.851
83.5	281.414	251.463	180.910	93.892	23.355	17.670	14.338	11.941	9.386
84.0	279.588	249.586	179.012	91.971	21.517	15.992	12.793	10.476	7.947
84.5	277.709	247.657	177.087	90.050	19.705	14.366	11.221	9.010	6.615
85.0	275.936	245.701	175.190	88.235	17.947	12.794	9.729	7.651	5.416
85.5	274.189	243.904	173.211	86.421	16.215	11.222	8.290	6.346	4.350
86.0	272.444	242.185	171.314	84.686	14.536	9.704	6.904	5.174	3.577
86.5	270.829	240.623	169.601	82.952	12.911	8.238	5.572	4.267	3.044
87.0	269.343	239.532	167.913	81.350	11.366	6.799	4.400	3.548	2.697
87.5	268.276	238.702	166.645	79.695	9.820	5.413	3.573	3.094	2.484
88.0	267.759	238.317	165.741	78.067	8.248	4.054	2.987	2.775	2.376
88.5	267.370	238.036	165.176	76.646	6.676	2.935	2.667	2.535	2.243
89.0	267.139	237.965	165.031	75.671	5.077	2.402	2.480	2.454	2.216
89.5	267.092	237.921	164.912	75.347	3.717	2.215	2.400	2.374	2.189
90.0	267.123	237.903	164.926	75.366	3.179	2.162	2.373	2.374	2.216
90.5	266.917	237.965	164.942	75.517	3.777	2.161	2.373	2.373	2.188
91.0	267.029	238.160	165.141	76.227	5.081	2.187	2.346	2.399	2.188
91.5	267.088	238.514	165.580	77.469	6.647	2.604	2.372	2.373	2.162
92.0	267.413	239.081	166.577	78.953	8.160	3.360	2.450	2.346	2.214
92.5	267.764	240.045	167.947	80.436	9.621	4.587	2.659	2.424	2.266
93.0	268.487	241.250	169.581	82.156	11.082	6.022	3.181	2.529	2.449
93.5	269.423	242.774	171.322	83.691	12.595	7.457	4.068	2.815	2.866
94.0	270.812	244.509	173.115	85.436	14.187	8.919	5.268	3.389	3.675
94.5	272.492	246.272	174.801	87.155	15.805	10.327	6.651	4.303	4.797
95.0	274.253	248.166	176.778	88.873	17.475	11.867	8.060	5.399	6.049
95.5	276.013	250.086	178.676	90.670	19.198	13.433	9.521	6.730	7.485
96.0	277.852	251.873	180.546	92.519	20.972	14.998	11.087	8.165	8.894
96.5	279.639	253.713	182.469	94.447	22.798	16.642	12.627	9.600	10.408
97.0	281.451	255.581	184.393	96.401	24.677	18.286	14.219	11.114	11.947
97.5	283.316	257.499	186.342	98.355	26.635	20.035	15.837	12.706	13.461
98.0	285.127	259.417	188.293	100.438	28.565	21.809	17.455	14.246	15.000
98.5	287.044	261.388	190.347	102.549	30.627	23.636	19.150	15.863	16.671
99.0	288.934	263.385	192.401	104.632	32.767	25.593	20.899	17.507	18.341
99.5	290.825	265.329	194.481	106.821	34.906	27.524	22.699	19.230	20.090
100.0	292.714	267.326	196.614	109.034	37.098	29.560	24.500	20.952	21.759
100.5	294.605	269.348	198.719	111.249	39.343	31.595	26.379	22.674	23.534
101.0	296.600	271.318	200.878	113.541	41.640	33.631	28.336	24.449	25.282
101.5	298.437	273.287	203.009	115.808	43.962	35.823	30.268	26.249	27.135
102.0	300.431	275.337	205.245	118.126	46.336	37.857	32.277	28.102	29.040
102.5	302.347	277.306	207.402	120.418	48.711	40.154	34.286	30.007	30.919
103.0	304.316	279.328	209.586	122.737	51.190	42.868	36.348	31.912	32.850
103.5	306.284	281.324	211.795	125.107	53.696	45.112	38.435	33.869	34.755
104.0	308.254	283.319	214.031	127.530	56.149	47.017	40.523	35.853	36.791
104.5	310.168	285.420	216.239	129.901	58.654	49.418	42.715	37.888	38.826
105.0	312.189	287.390	218.422	132.271	61.263	51.715	44.881	39.950	40.888
105.5	313.921	289.411	220.683	134.694	63.847	54.141	47.073	42.012	42.949
106.0	315.914	291.433	222.866	137.143	66.456	56.855	49.318	44.099	45.064
106.5	317.778	293.376	225.049	139.618	69.145	59.674	51.588	46.213	47.151
107.0	319.720	295.372	227.258	142.014	71.780	61.735	53.832	48.379	49.421
107.5	321.661	297.393	229.440	144.489	74.468	63.953	56.181	50.519	51.535
108.0	323.524	299.362	231.702	147.016	77.156	66.458	58.477	52.816	53.753
108.5	325.361	301.331	233.937	149.544	79.896	69.016	60.800	55.007	55.946
109.0	327.329	303.222	236.146	152.044	82.610	71.547	63.200	57.304	58.190
109.5	329.139	305.323	238.355	154.519	85.324	74.105	65.576	59.522	60.408
110.0	331.028	307.161	240.512	157.099	88.090	76.688	67.924	61.818	62.731
110.5	332.865	309.131	242.590	159.626	90.856	79.272	70.351	64.115	65.001

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CANDELA TABULATION - (Cont.)

111.0	334.728	310.969	244.772	162.153	93.649	81.882	72.778	66.438	67.324
111.5	336.539	312.886	246.982	164.733	96.441	84.491	75.179	68.786	69.542
112.0	338.271	314.804	249.137	167.285	99.233	87.127	77.658	71.135	71.786
112.5	340.134	316.695	251.346	169.891	102.104	89.815	80.163	73.457	74.083
113.0	341.813	318.586	253.530	172.444	104.870	92.503	82.616	75.780	76.431
113.5	343.650	320.452	255.685	175.101	107.662	95.217	85.147	78.181	78.832
114.0	345.408	322.237	257.841	177.654	110.533	97.879	87.731	80.555	81.181
114.5	347.140	324.075	259.998	180.233	113.299	100.619	90.810	83.009	83.529
115.0	348.767	325.941	262.154	182.839	116.118	103.333	94.098	85.436	85.930
115.5	350.422	327.779	264.284	185.418	118.962	106.099	96.446	87.810	88.253
116.0	352.206	329.487	266.468	187.997	121.807	108.813	98.065	90.237	90.784
116.5	353.808	331.327	268.518	190.577	124.599	111.527	100.309	92.664	93.159
117.0	355.592	333.166	270.727	193.182	127.444	114.346	103.284	95.143	95.638
117.5	357.168	334.846	272.805	195.735	130.340	117.034	106.625	97.518	97.987
118.0	358.744	336.658	274.909	198.341	133.106	119.852	109.286	100.024	100.440
118.5	360.240	338.341	277.117	200.893	135.977	122.619	111.114	102.398	102.867
119.0	361.842	339.970	279.169	203.499	138.822	125.333	113.149	104.956	105.373
119.5	363.445	341.860	281.273	206.052	141.666	128.021	115.654	107.409	107.721
120.0	364.967	343.569	283.351	208.579	144.563	130.761	118.212	109.914	110.331
120.5	366.517	345.225	285.428	211.053	147.382	133.553	120.795	112.393	112.731
121.0	368.066	346.854	287.533	213.632	150.122	136.267	123.352	114.925	115.185
121.5	369.642	348.563	289.558	216.132	152.992	138.955	125.910	117.926	117.638
122.0	370.930	350.219	291.637	218.712	155.837	141.670	128.572	121.345	120.143
122.5	372.533	351.561	293.635	221.213	158.629	144.357	131.129	124.267	122.674
123.0	374.109	353.270	295.687	223.713	161.448	147.124	133.739	126.198	125.180
123.5	375.685	354.873	297.766	226.188	164.292	149.812	136.349	128.521	127.763
124.0	376.999	356.294	299.843	228.662	167.058	152.552	138.985	131.548	131.234
124.5	378.575	357.923	301.842	231.189	169.903	155.319	141.595	134.106	135.749
125.0	379.944	359.606	303.920	233.689	172.669	157.954	144.256	135.828	138.645
125.5	381.232	361.001	305.972	236.191	175.514	160.694	146.866	137.655	140.003
126.0	382.781	362.657	307.893	238.587	178.280	163.408	149.502	140.082	140.472
126.5	384.070	364.105	309.943	241.035	181.046	166.070	152.085	142.587	142.664
127.0	385.438	365.761	312.127	243.484	183.865	168.836	154.695	145.119	145.170
127.5	386.779	367.155	313.995	245.854	186.657	171.524	157.331	147.624	147.701
128.0	388.068	368.577	315.811	248.328	189.397	174.290	159.993	150.155	150.285
128.5	389.409	370.233	317.968	250.777	192.242	177.057	162.524	152.713	152.816
129.0	390.751	371.654	319.837	253.173	195.060	179.745	165.265	155.322	155.400
129.5	390.734	373.049	321.706	255.596	197.852	182.459	167.952	157.854	157.983
130.0	392.103	374.444	323.862	258.018	200.618	185.173	170.614	160.385	160.567
130.5	392.922	375.839	325.705	260.467	203.385	187.939	173.276	162.917	163.176
131.0	394.211	376.946	327.574	262.836	206.203	190.653	175.859	165.475	165.734
131.5	394.535	378.160	329.443	265.233	209.048	193.341	178.496	168.084	168.318
132.0	396.580	379.294	331.312	267.603	211.840	196.029	181.209	170.667	170.980
132.5	397.948	380.401	333.181	269.973	214.685	198.769	183.845	173.251	173.562
133.0	398.533	381.354	335.050	272.291	217.503	201.457	186.585	175.783	176.147
133.5	399.822	382.227	336.919	274.687	220.244	204.198	189.221	178.705	178.730
134.0	401.685	383.910	338.761	277.110	223.010	206.938	191.935	181.263	181.393
134.5	402.244	385.044	340.369	279.480	225.802	209.600	194.623	183.873	183.949
135.0	403.559	386.726	342.238	281.903	228.594	212.392	197.258	186.508	186.691
135.5	405.188	387.573	344.107	284.012	231.387	215.132	199.973	189.171	189.221
136.0	405.720	388.733	345.896	286.435	234.153	217.872	202.609	191.701	191.884
136.5	407.557	389.894	347.557	288.778	236.893	220.507	205.270	194.338	194.414
137.0	407.594	391.262	349.139	291.174	239.686	223.273	207.958	196.922	197.181
137.5	409.116	392.683	351.034	293.336	242.400	226.041	210.542	199.504	199.791
138.0	409.675	393.556	352.041	295.653	245.139	228.701	213.176	202.087	202.240
138.5	411.278	395.239	353.414	297.788	247.775	231.389	215.865	204.828	205.034

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CANDELA TABULATION - (Cont.)

139.0	412.177	395.878	355.283	300.158	250.489	233.999	218.500	207.411	207.696
139.5	412.917	396.985	356.604	302.240	253.230	236.739	221.136	210.048	210.332
140.0	413.737	398.172	358.238	304.349	255.918	239.349	223.694	212.631	212.942
140.5	415.105	399.359	359.064	306.692	258.632	242.063	226.408	215.345	215.761
141.0	415.898	400.493	360.411	308.774	261.399	244.699	229.096	218.112	218.527
141.5	416.979	400.898	362.280	311.117	264.139	247.361	231.732	220.825	221.215
142.0	417.591	402.346	363.600	313.226	266.748	250.023	234.367	223.539	223.929
142.5	418.410	403.480	365.235	315.308	269.358	252.632	236.976	226.123	226.643
143.0	419.699	404.326	366.555	317.444	271.967	255.294	239.586	228.732	229.331
143.5	420.806	404.965	367.902	319.579	274.838	258.008	242.300	231.498	232.045
144.0	420.321	405.891	369.510	321.715	277.474	260.670	244.909	234.212	234.759
144.5	421.743	407.078	370.858	323.823	280.110	263.175	247.571	236.900	237.473
145.0	423.057	407.978	371.944	325.724	282.720	265.784	250.180	239.509	240.291
145.5	423.121	408.877	373.813	327.860	285.329	268.421	252.789	242.197	242.901
146.0	423.914	409.463	374.872	329.761	287.704	271.030	255.347	244.806	245.589
146.5	425.362	410.650	376.246	331.114	290.314	273.640	257.930	247.468	248.277
147.0	425.948	411.235	377.566	332.988	292.924	276.249	260.618	250.103	250.990
147.5	427.055	412.449	378.679	334.367	295.299	278.912	263.202	252.764	253.600
148.0	427.065	412.566	380.026	335.981	297.908	281.495	265.811	255.426	256.340
148.5	427.155	413.205	380.851	338.116	300.284	283.843	268.447	258.088	259.002
149.0	427.948	414.392	382.198	339.991	302.920	286.219	271.030	260.697	261.715
149.5	428.353	413.987	383.024	341.370	305.268	288.855	273.640	263.228	264.325
150.0	428.597	415.121	384.371	343.532	307.617	291.464	276.249	265.838	267.196
150.5	429.443	415.759	386.005	345.172	309.965	293.840	278.859	268.708	269.805
151.0	429.480	416.398	386.335	347.073	312.341	296.188	281.234	271.291	272.649
151.5	430.353	416.542	387.943	348.687	314.716	298.798	283.843	273.927	275.285
152.0	430.417	416.946	388.534	350.588	317.091	301.173	286.453	276.510	278.129
152.5	430.193	417.585	389.647	351.967	319.440	303.522	289.089	279.120	280.765
153.0	430.256	417.701	390.760	353.868	321.554	305.897	291.411	281.468	283.375
153.5	431.102	418.367	391.585	355.508	322.885	308.245	294.047	284.339	285.984
154.0	430.644	418.771	392.176	357.410	325.495	310.882	296.396	286.922	288.882
154.5	431.229	418.914	392.713	358.789	327.322	312.969	299.005	289.531	291.518
155.0	431.788	419.292	393.773	360.168	328.914	315.371	301.381	291.880	294.101
155.5	431.617	419.201	394.518	361.835	330.767	317.693	303.990	294.489	296.737
156.0	430.871	419.606	395.002	363.187	333.116	320.095	306.365	297.099	299.320
156.5	431.457	420.037	395.540	364.854	334.969	321.400	308.714	299.682	301.668
157.0	431.728	419.892	396.339	366.260	337.083	323.775	311.063	302.030	304.304
157.5	430.529	420.063	396.876	367.352	338.910	325.862	313.699	304.640	306.914
158.0	430.608	419.450	397.494	368.731	340.763	327.950	316.047	307.249	309.523
158.5	429.910	419.620	397.850	369.876	342.851	329.542	318.135	309.598	311.872
159.0	429.190	419.790	398.468	371.255	344.704	331.630	319.701	311.946	314.482
159.5	429.882	419.933	398.824	372.661	346.270	333.979	322.859	314.556	316.830
160.0	429.030	419.789	399.207	373.779	348.384	335.832	324.163	316.905	319.440
160.5	428.417	419.618	399.852	374.663	349.977	337.946	326.539	319.253	321.815
161.0	428.635	419.655	400.235	375.808	351.281	339.773	328.365	321.080	324.398
161.5	428.129	418.701	400.852	376.926	353.369	341.860	329.958	323.428	326.485
162.0	427.782	418.296	400.218	378.071	354.674	343.714	332.306	325.777	327.476
162.5	426.802	417.657	401.123	378.433	356.788	345.828	334.133	327.604	329.771
163.0	426.524	418.088	401.011	379.839	358.120	347.916	336.769	329.430	331.779
163.5	426.039	417.241	401.160	380.435	359.946	349.508	338.596	331.779	334.101
164.0	426.183	417.230	401.544	381.319	361.251	351.074	340.423	333.867	336.162
164.5	425.336	416.409	401.431	381.916	362.843	352.900	342.798	336.242	338.979
165.0	424.515	416.372	401.580	382.800	364.409	354.988	344.885	338.068	341.067
165.5	423.173	415.029	401.495	383.657	366.001	356.319	346.451	339.895	342.893
166.0	423.162	414.523	401.356	384.541	367.306	357.885	348.304	342.244	345.450
166.5	422.576	413.990	401.532	385.425	368.350	359.739	350.365	344.331	347.798

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167.0	421.936	413.457	401.185	385.292	369.681	361.043	352.480	346.185	349.886
167.5	420.802	412.456	401.100	385.941	370.752	362.609	353.784	348.560	351.712
168.0	418.991	411.689	401.015	386.591	372.057	364.201	355.899	350.647	353.827
168.5	418.719	411.076	400.929	387.267	373.361	365.767	358.013	352.762	355.888
169.0	417.142	410.175	400.322	386.873	374.693	367.333	359.291	354.327	357.688
169.5	416.348	409.200	400.236	387.757	375.449	368.377	361.379	356.676	359.227
170.0	415.554	408.199	399.890	387.911	376.232	369.969	362.971	358.242	361.314
170.5	414.787	407.746	399.048	388.327	377.041	371.274	364.302	360.095	363.168
171.0	413.184	406.798	399.251	388.508	377.563	372.579	365.634	361.922	364.760
171.5	411.921	405.850	398.121	388.689	378.895	373.388	367.226	363.802	366.848
172.0	411.234	404.667	398.089	389.104	379.965	374.693	368.792	364.846	368.360
172.5	409.998	403.511	397.248	389.024	380.721	375.998	370.358	366.933	370.421
173.0	408.267	402.563	396.459	388.971	381.270	377.302	371.923	368.499	371.438
173.5	407.346	401.381	396.219	389.439	381.765	377.824	373.228	369.804	373.292
174.0	406.371	400.459	395.170	389.386	382.026	379.129	374.272	371.396	375.092
174.5	404.847	398.781	394.435	389.333	382.836	380.434	375.550	372.962	375.875
175.0	403.324	397.625	393.700	388.784	383.618	381.217	376.594	374.240	377.414
175.5	401.827	396.523	392.992	389.306	384.114	381.712	377.925	375.571	378.457
176.0	401.428	395.447	392.310	389.280	384.662	382.782	379.203	376.903	380.572
176.5	399.255	393.902	391.655	389.045	384.897	383.304	380.796	378.234	381.381
177.0	398.125	392.933	390.531	389.045	384.950	384.087	381.057	379.512	382.686
177.5	396.448	391.468	390.217	388.523	385.445	384.348	382.362	380.556	383.442
178.0	394.876	390.579	389.668	388.523	385.706	385.131	383.118	382.148	385.556
178.5	393.204	388.960	388.885	388.262	385.706	385.914	383.901	383.166	386.835
179.0	392.080	388.411	387.842	388.262	385.967	386.175	385.232	384.209	387.356
179.5	391.010	387.394	387.320	387.740	385.967	386.697	385.754	385.019	389.471
180.0	386.952	386.952	386.952	386.952	386.952	386.952	386.952	386.952	386.952

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-830U-L13-830D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	143.67	N.A.	5.50
0-30	305.18	N.A.	11.70
0-40	500.61	N.A.	19.20
0-60	906.72	N.A.	34.70
0-80	1214.36	N.A.	46.50
0-90	1311.00	N.A.	50.20
10-90	1273.89	N.A.	48.80
20-40	356.94	N.A.	13.70
20-50	564.16	N.A.	21.60
40-70	579.02	N.A.	22.20
60-80	307.65	N.A.	11.80
70-80	134.74	N.A.	5.20
80-90	96.64	N.A.	3.70
90-110	230.51	N.A.	8.80
90-120	402.20	N.A.	15.40
90-130	599.69	N.A.	23.00
90-150	998.98	N.A.	38.20
90-180	1300.77	N.A.	49.80
110-180	1070.27	N.A.	41.00
0-180	2611.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.11
10-20	106.55
20-30	161.52
30-40	195.43
40-50	207.22
50-60	198.89
60-70	172.91
70-80	134.74
80-90	96.64
90-100	96.50
100-110	134.01
110-120	171.69
120-130	197.49
130-140	205.63
140-150	193.67
150-160	159.79
160-170	105.30
170-180	36.70

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-2-00-L13-830U-L13-830D-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

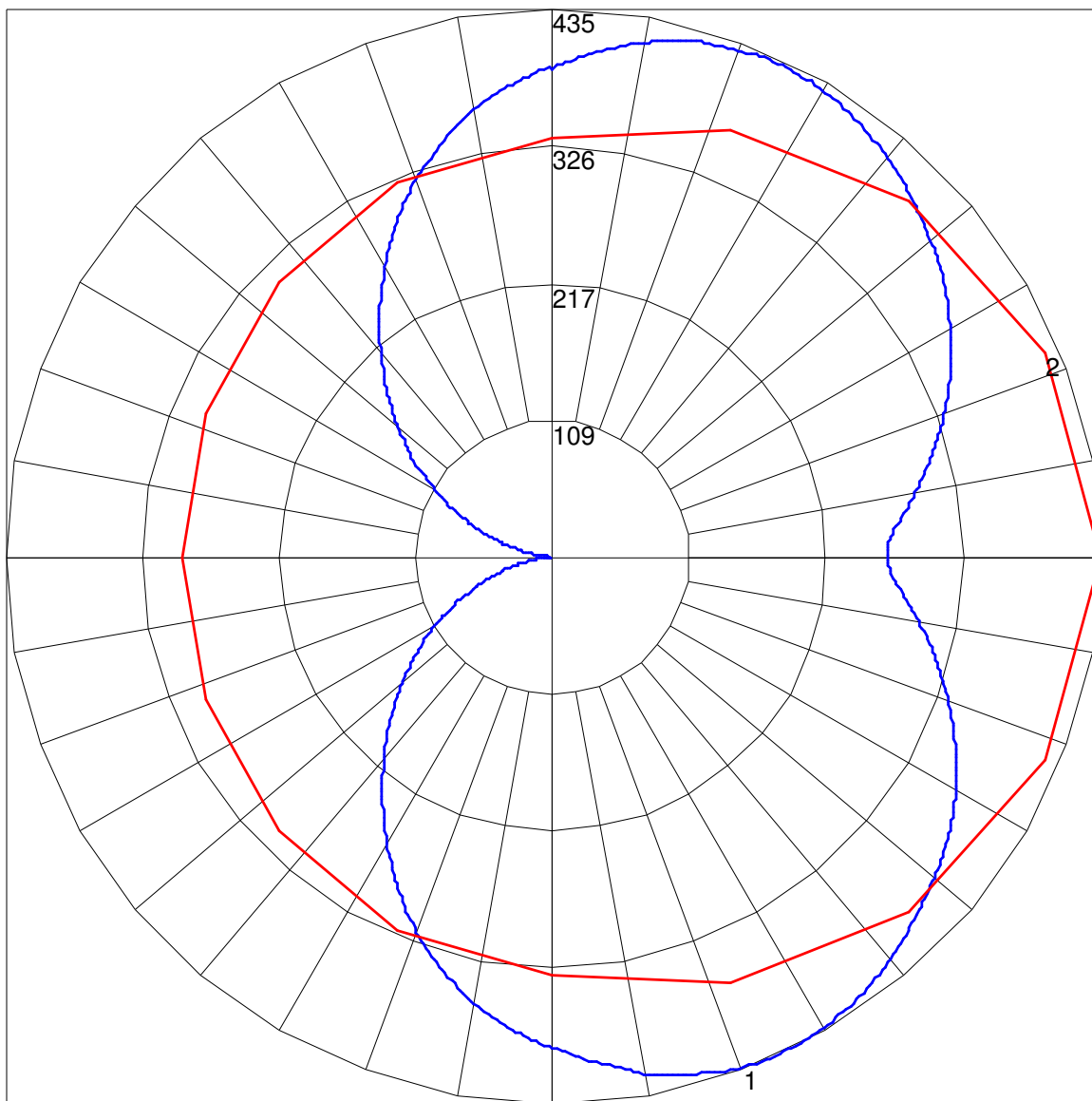
X=2H	Y=2H	19.4	20.3	20.3	21.2	22.5	13.5	14.4	14.4	15.3	16.6
	3H	22.4	23.2	23.4	24.2	25.5	14.8	15.7	15.8	16.6	17.9
	4H	24.0	24.7	24.9	25.7	27.0	15.3	16.0	16.2	17.0	18.3
	6H	25.6	26.3	26.6	27.3	28.6	15.5	16.2	16.5	17.2	18.5
	8H	26.4	27.1	27.4	28.1	29.5	15.5	16.2	16.5	17.2	18.6
	12H	27.4	28.0	28.4	29.0	30.4	15.6	16.2	16.5	17.2	18.6

UGR Viewed Endwise

4H	2H	19.6	20.4	20.6	21.4	22.7	14.7	15.5	15.7	16.5	17.8
	3H	22.9	23.6	23.9	24.6	25.9	16.3	17.0	17.3	18.0	19.3
	4H	24.6	25.3	25.6	26.3	27.6	16.9	17.5	17.9	18.5	19.9
	6H	26.5	27.0	27.5	28.1	29.4	17.3	17.8	18.3	18.9	20.2
	8H	27.5	28.0	28.5	29.0	30.3	17.4	17.9	18.4	18.9	20.3
	12H	28.5	29.0	29.5	30.0	31.3	17.4	17.9	18.5	18.9	20.3
8H	4H	24.8	25.3	25.8	26.3	27.7	18.0	18.5	19.0	19.5	20.9
	6H	26.8	27.2	27.8	28.3	29.6	18.6	19.0	19.6	20.1	21.4
	8H	27.9	28.3	29.0	29.3	30.7	18.9	19.2	19.9	20.3	21.6
	12H	29.1	29.5	30.2	30.5	31.9	19.0	19.3	20.0	20.4	21.8
12H	4H	24.8	25.2	25.8	26.2	27.6	18.3	18.8	19.4	19.8	21.2
	6H	26.8	27.2	27.9	28.2	29.6	19.1	19.5	20.2	20.6	21.9
	8H	28.0	28.3	29.0	29.4	30.8	19.5	19.8	20.5	20.8	22.2

Maximum UGR = 31.9

POLAR GRAPH



Maximum Candela = 434.86 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.)