

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-930U-L13-930D-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-L13-930U-L13-930D-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	2163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	8935	8327	7853
55	8883	7936	7110
65	8898	7625	6224
75	9053	7405	4929
85	9516	7503	2991

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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	323.753	323.753	323.753	323.753	323.753	323.753	323.753	323.753	323.753
0.5	324.208	324.748	324.146	325.379	323.172	324.852	322.671	322.654	322.684
1.0	325.090	325.518	325.336	325.643	322.973	324.367	321.745	321.728	321.780
1.5	326.259	326.552	325.686	326.349	322.973	323.463	321.260	320.603	320.235
2.0	327.249	327.829	326.478	326.413	322.731	322.779	320.377	319.698	319.331
2.5	328.682	328.707	327.534	326.699	322.510	322.338	319.495	319.036	318.470
3.0	329.629	330.026	328.369	326.764	322.290	321.896	318.833	317.712	317.345
3.5	330.884	331.190	328.983	327.512	322.290	320.992	317.729	316.808	316.683
4.0	332.537	332.354	330.039	327.577	321.827	320.109	317.288	315.704	315.138
4.5	333.285	333.318	330.874	327.443	321.606	319.888	316.184	314.601	313.792
5.0	333.701	334.525	331.596	328.170	321.165	318.785	314.860	313.476	312.490
5.5	335.241	335.512	331.834	328.256	320.503	317.682	314.198	312.373	311.828
6.0	336.275	336.299	332.470	328.122	320.040	317.439	313.316	311.468	310.482
6.5	337.110	337.791	333.127	328.009	319.620	316.578	312.169	309.902	309.179
7.0	337.945	338.734	333.564	328.053	319.378	315.873	311.065	308.556	307.613
7.5	338.797	339.522	334.023	327.962	318.253	314.769	309.741	307.453	306.068
8.0	340.436	340.088	334.589	327.386	317.591	313.666	308.638	306.107	304.523
8.5	341.889	340.918	335.156	327.715	317.370	313.004	307.513	304.783	303.000
9.0	343.874	341.792	335.657	327.360	316.266	311.879	306.167	302.996	301.455
9.5	344.856	342.553	335.960	327.468	315.583	310.555	304.843	301.650	301.014
10.0	345.950	343.734	336.241	327.156	314.921	309.650	303.740	300.326	298.586
10.5	347.023	344.430	336.743	326.823	313.817	308.569	302.394	298.759	297.505
11.0	347.676	344.927	337.045	326.291	313.354	307.444	300.827	297.656	295.960
11.5	348.264	345.710	337.127	325.758	312.030	306.119	299.525	295.869	293.974
12.0	348.631	346.272	337.430	325.667	311.147	305.436	298.179	294.324	292.230
12.5	349.903	347.275	337.533	325.135	310.464	303.649	296.634	292.779	290.685
13.0	350.621	347.816	337.680	324.602	309.581	302.545	295.068	290.992	288.521
13.5	351.183	348.533	337.827	324.291	308.036	301.221	293.722	289.205	287.241
14.0	352.251	348.987	337.995	323.780	307.353	299.434	291.736	287.440	285.319
14.5	352.990	349.463	337.679	323.005	306.249	298.331	290.170	285.674	283.355
15.0	353.003	349.696	337.782	322.495	304.683	296.985	288.625	283.909	281.390
15.5	353.461	349.951	337.752	321.499	303.359	295.639	286.838	281.922	280.287
16.0	353.656	350.426	337.500	320.681	302.234	294.094	285.492	280.157	277.617
16.5	354.607	350.902	337.911	320.391	301.130	292.550	283.727	278.612	276.293
17.0	355.649	350.715	337.880	319.396	300.027	290.762	282.160	276.604	274.990
17.5	355.813	351.433	337.607	318.158	298.460	289.637	280.152	275.259	272.762
18.0	356.440	351.247	337.334	317.648	296.915	287.409	278.166	273.272	271.217
18.5	357.287	351.523	336.996	316.695	295.349	286.085	277.262	272.169	269.209
19.0	357.074	351.800	336.922	316.007	294.025	284.298	275.496	270.183	267.223
19.5	358.073	351.834	336.364	315.120	292.459	282.952	273.489	268.197	264.995
20.0	358.566	351.690	336.290	313.947	291.134	281.186	272.606	266.211	263.008
20.5	358.708	351.967	335.532	312.995	289.789	279.399	270.598	264.203	260.780
21.0	358.829	351.802	335.238	311.688	287.802	277.634	268.612	262.217	258.794
21.5	359.192	351.901	334.701	311.021	286.457	276.730	266.846	260.010	256.587
22.0	359.662	351.822	334.186	310.156	284.691	274.523	264.839	258.024	254.358
22.5	359.934	351.744	333.649	309.026	282.904	272.935	262.831	256.037	252.372
23.0	359.743	351.865	333.133	307.875	281.338	270.728	260.845	253.831	250.144
23.5	359.795	351.630	332.817	306.282	279.352	269.845	258.837	251.624	247.937
24.0	360.045	351.595	332.081	305.438	278.027	268.058	256.829	249.616	245.509
24.5	360.187	351.517	331.566	304.153	276.020	266.072	254.843	247.431	243.523
25.0	359.888	351.460	330.609	303.222	275.358	264.042	252.835	245.202	241.295
25.5	359.368	350.961	330.094	302.093	273.791	262.056	250.849	242.995	238.867
26.0	359.510	350.840	329.358	300.301	272.246	260.048	248.621	241.009	236.859
26.5	359.233	350.277	328.644	298.929	270.239	258.062	246.613	238.802	234.410

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CANDELA TABULATION - (Cont.)

27.0	358.734	349.934	328.171	297.800	268.231	256.033	244.406	236.595	232.203
27.5	358.721	349.813	326.838	296.670	266.444	254.047	242.398	234.367	229.975
28.0	358.863	349.250	325.968	294.636	264.458	251.818	240.390	232.160	227.547
28.5	358.278	348.686	325.297	293.706	262.692	249.832	238.183	229.953	225.319
29.0	357.802	348.565	324.626	291.914	260.485	247.824	235.977	227.526	223.112
29.5	357.702	347.560	323.777	290.079	258.477	245.617	233.748	225.319	220.795
30.0	357.532	346.954	322.885	288.928	256.470	243.367	231.762	223.090	218.501
30.5	356.969	346.456	321.994	287.357	254.484	241.381	229.534	220.861	216.293
31.0	356.891	346.113	321.123	285.743	252.497	239.153	227.327	218.633	213.999
31.5	356.414	345.728	319.790	285.033	250.490	236.946	225.120	216.448	211.726
32.0	355.674	345.165	319.141	283.198	248.283	234.938	222.891	214.174	209.541
32.5	355.816	344.381	318.006	282.267	246.275	232.710	220.662	211.967	207.224
33.0	354.612	344.060	317.071	280.697	244.289	230.503	218.433	209.651	204.907
33.5	354.819	343.034	315.916	278.883	242.060	228.274	216.227	207.422	202.678
34.0	354.520	342.272	314.539	277.291	239.853	226.067	213.998	205.237	200.362
34.5	353.823	341.488	313.163	275.456	237.625	224.060	211.769	202.964	198.111
35.0	352.996	340.704	312.249	273.643	235.418	221.787	209.584	200.735	195.926
35.5	352.476	340.163	311.293	272.050	233.432	219.558	207.400	198.484	193.631
36.0	351.644	338.938	309.959	270.237	231.225	217.329	205.171	196.277	191.336
36.5	351.168	338.154	309.024	268.423	228.798	215.101	202.854	194.114	189.063
37.0	350.406	337.613	307.406	266.589	226.569	212.938	200.691	191.842	186.768
37.5	349.730	336.409	306.008	264.775	224.362	210.643	198.484	189.547	184.606
38.0	349.452	335.405	305.116	262.962	222.155	208.414	196.233	187.384	182.267
38.5	348.072	334.643	303.298	261.149	219.905	206.141	194.027	185.133	179.950
39.0	347.396	334.101	302.121	259.115	217.610	203.957	191.776	182.927	177.699
39.5	346.435	332.876	302.289	257.280	215.381	201.728	189.613	180.676	175.470
40.0	346.179	332.114	300.934	255.467	213.086	199.433	187.429	178.469	173.307
40.5	344.841	331.308	299.579	253.433	210.791	197.204	185.155	176.262	171.078
41.0	343.837	330.148	298.181	251.598	208.562	194.976	182.949	174.033	168.806
41.5	342.719	329.144	296.827	249.607	206.223	192.659	180.698	171.871	166.621
42.0	342.442	328.338	295.208	247.816	203.950	190.540	178.491	169.620	164.436
42.5	341.524	327.356	293.831	246.024	201.655	188.289	176.262	167.369	162.273
43.0	340.385	325.689	292.412	244.276	199.360	186.016	174.055	165.251	159.979
43.5	339.844	324.905	291.057	242.285	196.954	183.743	171.782	162.978	157.838
44.0	338.684	323.901	289.481	240.294	194.703	181.515	169.509	160.749	155.741
44.5	337.766	322.918	287.841	238.282	192.364	179.308	167.281	158.565	153.557
45.0	337.090	322.134	286.486	236.469	190.069	176.969	165.074	156.314	151.416
45.5	335.644	320.710	284.889	234.479	187.774	174.717	162.779	154.151	149.166
46.0	335.544	319.727	283.292	232.511	185.435	172.444	160.572	151.966	147.003
46.5	334.206	319.164	281.916	230.521	183.117	170.194	158.299	149.738	144.929
47.0	333.708	318.822	280.319	228.487	180.712	167.943	156.070	147.597	142.833
47.5	332.967	317.904	278.700	226.562	178.329	165.648	153.842	145.390	140.604
48.0	332.071	316.614	277.168	224.638	175.968	163.287	151.656	143.294	138.441
48.5	330.625	315.454	275.506	222.691	173.650	160.992	149.384	141.109	136.300
49.0	329.729	314.228	273.930	220.678	171.334	158.719	147.155	138.991	134.115
49.5	328.854	313.003	272.311	218.666	168.994	156.490	144.970	136.851	132.041
50.0	328.975	312.042	270.693	216.698	166.633	154.217	142.786	134.710	129.856
50.5	327.395	310.817	269.117	214.664	164.294	151.878	140.535	132.679	127.738
51.0	327.096	309.635	267.542	212.697	161.977	149.627	138.350	130.517	125.598
51.5	326.000	308.432	265.702	210.662	159.659	147.310	136.121	128.376	123.523
52.0	324.905	306.986	264.062	208.541	157.298	145.081	133.980	126.280	121.493
52.5	323.965	305.782	262.486	206.551	154.981	142.830	131.796	124.184	119.375
53.0	322.805	304.536	260.669	204.473	152.642	140.535	129.589	122.087	117.234
53.5	321.645	303.354	259.028	202.417	150.369	138.218	127.382	120.013	115.094
54.0	320.571	302.107	257.321	200.317	148.008	135.989	125.197	117.872	113.195
54.5	319.410	300.748	255.547	198.195	145.735	133.782	123.035	115.820	111.100

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CANDELA TABULATION - (Cont.)

55.0	318.293	299.501	253.862	196.139	143.417	131.487	120.850	113.702	108.981
55.5	317.155	298.055	252.198	193.995	141.122	129.171	118.688	111.605	106.950
56.0	316.038	296.851	250.469	191.917	138.783	126.941	116.547	109.597	104.810
56.5	314.964	295.406	248.674	189.751	136.465	124.669	114.319	107.434	102.846
57.0	313.825	294.224	246.901	187.607	134.127	122.439	112.244	105.448	100.904
57.5	312.466	292.800	245.193	185.463	131.831	120.123	110.126	103.308	98.763
58.0	311.262	291.332	243.441	183.252	129.448	117.872	107.941	101.299	96.711
58.5	310.188	289.908	241.647	181.109	127.109	115.643	105.844	99.247	94.637
59.0	309.050	288.527	239.786	178.898	124.725	113.392	103.748	97.173	92.672
59.5	307.712	287.038	238.055	176.688	122.320	111.119	101.673	95.164	90.664
60.0	306.266	285.592	236.194	174.544	119.959	108.824	99.599	93.134	88.634
60.5	304.950	284.168	234.465	172.400	117.619	106.573	97.481	91.126	86.604
61.0	303.811	282.721	232.670	170.300	115.302	104.300	95.362	89.096	84.595
61.5	302.430	281.275	230.874	168.134	112.941	102.094	93.244	87.065	82.565
62.0	300.829	279.741	228.991	165.924	110.623	99.821	91.213	85.035	80.623
62.5	299.469	278.228	227.217	163.758	108.240	97.592	89.095	82.983	78.571
63.0	298.110	276.782	225.444	161.592	105.945	95.297	86.977	80.975	76.607
63.5	296.751	275.181	223.649	159.426	103.605	93.024	84.902	78.988	74.576
64.0	295.413	273.625	221.766	157.260	101.266	90.861	82.805	76.936	72.679
64.5	293.833	272.091	219.993	155.094	98.949	88.610	80.664	74.928	70.847
65.0	292.320	270.557	218.044	152.840	96.610	86.403	78.524	72.941	68.794
65.5	290.785	268.935	216.248	150.608	94.249	84.152	76.471	70.933	66.852
66.0	289.293	267.268	214.431	148.442	91.953	81.902	74.331	68.969	64.954
66.5	287.889	265.668	212.504	146.254	89.658	79.651	72.279	66.939	63.056
67.0	286.309	264.067	210.708	144.066	87.363	77.444	70.270	64.997	61.225
67.5	284.773	262.466	208.780	141.812	85.067	75.281	68.218	63.033	59.305
68.0	283.260	260.801	206.898	139.580	82.662	73.140	66.144	61.091	57.341
68.5	281.657	259.134	205.037	137.370	80.345	70.889	64.069	59.149	55.399
69.0	280.255	257.490	203.087	135.205	78.072	68.749	62.017	57.207	53.611
69.5	278.675	255.890	201.270	133.061	75.799	66.542	60.075	55.309	51.757
70.0	277.183	254.222	199.321	130.917	73.504	64.401	58.067	53.411	49.903
70.5	275.646	252.534	197.437	128.751	71.231	62.217	56.081	51.469	47.984
71.0	274.154	250.867	195.532	126.521	68.936	60.098	54.094	49.637	46.130
71.5	272.640	249.200	193.539	124.377	66.773	57.980	52.153	47.805	44.298
72.0	270.996	247.425	191.678	122.300	64.521	55.861	50.210	45.974	42.621
72.5	269.437	245.801	189.773	120.178	62.116	53.765	48.290	44.208	40.745
73.0	267.814	244.091	187.912	118.123	59.953	51.712	46.415	42.354	38.979
73.5	266.234	242.337	186.030	116.001	57.725	49.726	44.517	40.545	37.170
74.0	264.676	240.648	184.081	113.880	55.540	47.718	42.641	38.823	35.449
74.5	262.987	238.873	182.197	111.781	53.421	45.732	40.809	37.080	33.838
75.0	261.385	237.185	180.228	109.747	51.280	43.746	38.999	35.359	32.094
75.5	259.740	235.430	178.345	107.627	49.183	41.804	37.189	33.593	30.439
76.0	258.073	233.742	176.551	105.550	47.087	39.906	35.358	31.938	28.828
76.5	256.403	231.966	174.625	103.582	44.990	38.030	33.549	30.217	27.239
77.0	254.714	230.301	172.743	101.484	42.960	36.154	31.871	28.606	25.760
77.5	253.025	228.547	170.861	99.538	40.885	34.300	30.128	26.973	24.215
78.0	251.380	226.860	169.044	97.550	38.943	32.447	28.429	25.406	22.715
78.5	249.602	225.107	167.250	95.670	36.979	30.637	26.751	23.860	21.214
79.0	247.936	223.310	165.412	93.682	35.081	28.893	25.096	22.316	19.691
79.5	246.246	221.623	163.618	91.760	33.161	27.172	23.485	20.771	18.301
80.0	244.514	219.914	161.803	89.860	31.262	25.494	21.918	19.314	16.889
80.5	242.782	218.184	159.987	88.069	29.431	23.817	20.373	17.858	15.520
81.0	241.159	216.519	158.303	86.279	27.665	22.184	18.873	16.445	14.108
81.5	239.492	214.721	156.554	84.489	25.943	20.617	17.393	15.055	12.740
82.0	237.803	213.057	154.871	82.699	24.244	19.072	15.915	13.687	11.460
82.5	236.290	211.547	153.210	80.975	22.545	17.593	14.547	12.428	10.246

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CANDELA TABULATION - (Cont.)

83.0	234.646	209.926	151.505	79.361	20.912	16.093	13.178	11.149	8.988
83.5	233.090	208.282	149.845	77.769	19.345	14.636	11.876	9.891	7.774
84.0	231.578	206.728	148.272	76.178	17.822	13.245	10.596	8.677	6.582
84.5	230.021	205.130	146.678	74.587	16.321	11.899	9.294	7.463	5.479
85.0	228.553	203.510	145.107	73.084	14.865	10.597	8.058	6.338	4.486
85.5	227.106	202.021	143.468	71.581	13.430	9.295	6.866	5.256	3.603
86.0	225.661	200.598	141.896	70.144	12.040	8.037	5.719	4.285	2.963
86.5	224.323	199.304	140.478	68.707	10.694	6.823	4.615	3.534	2.521
87.0	223.093	198.400	139.079	67.381	9.414	5.631	3.644	2.939	2.234
87.5	222.208	197.713	138.029	66.010	8.134	4.483	2.960	2.563	2.057
88.0	221.780	197.394	137.280	64.661	6.832	3.358	2.474	2.298	1.968
88.5	221.458	197.161	136.812	63.485	5.530	2.431	2.209	2.099	1.858
89.0	221.267	197.103	136.693	62.677	4.205	1.990	2.054	2.033	1.836
89.5	221.228	197.066	136.594	62.409	3.079	1.835	1.988	1.967	1.814
90.0	221.253	197.051	136.605	62.424	2.634	1.791	1.966	1.966	1.835
90.5	221.083	197.102	136.618	62.550	3.128	1.790	1.965	1.966	1.813
91.0	221.176	197.264	136.783	63.137	4.209	1.811	1.943	1.987	1.813
91.5	221.224	197.557	137.147	64.167	5.505	2.157	1.965	1.965	1.791
92.0	221.493	198.026	137.973	65.395	6.759	2.783	2.030	1.943	1.834
92.5	221.784	198.825	139.107	66.623	7.969	3.799	2.202	2.008	1.877
93.0	222.383	199.824	140.461	68.048	9.179	4.988	2.634	2.095	2.028
93.5	223.159	201.085	141.903	69.320	10.433	6.177	3.369	2.332	2.374
94.0	224.309	202.523	143.388	70.765	11.751	7.387	4.364	2.807	3.044
94.5	225.701	203.983	144.785	72.189	13.091	8.554	5.509	3.564	3.974
95.0	227.159	205.551	146.423	73.612	14.475	9.829	6.676	4.472	5.011
95.5	228.617	207.142	147.994	75.101	15.901	11.127	7.886	5.574	6.200
96.0	230.140	208.622	149.543	76.632	17.371	12.423	9.184	6.763	7.367
96.5	231.620	210.146	151.136	78.229	18.883	13.785	10.459	7.952	8.621
97.0	233.121	211.693	152.729	79.848	20.440	15.146	11.777	9.205	9.896
97.5	234.666	213.282	154.344	81.465	22.061	16.595	13.117	10.524	11.150
98.0	236.166	214.871	155.959	83.191	23.660	18.064	14.457	11.799	12.424
98.5	237.754	216.503	157.661	84.939	25.368	19.577	15.862	13.139	13.808
99.0	239.319	218.157	159.363	86.665	27.140	21.198	17.311	14.501	15.191
99.5	240.885	219.767	161.086	88.478	28.912	22.798	18.801	15.928	16.640
100.0	242.450	221.421	162.852	90.311	30.728	24.484	20.293	17.354	18.023
100.5	244.016	223.096	164.596	92.145	32.587	26.170	21.849	18.781	19.493
101.0	245.668	224.728	166.384	94.044	34.489	27.856	23.471	20.251	20.941
101.5	247.190	226.359	168.149	95.922	36.413	29.672	25.070	21.742	22.475
102.0	248.842	228.057	170.001	97.842	38.379	31.357	26.734	23.277	24.054
102.5	250.429	229.688	171.788	99.740	40.346	33.259	28.399	24.854	25.610
103.0	252.060	231.362	173.596	101.661	42.400	35.507	30.106	26.432	27.209
103.5	253.689	233.016	175.426	103.624	44.475	37.366	31.835	28.053	28.787
104.0	255.321	234.668	177.278	105.631	46.507	38.943	33.564	29.696	30.473
104.5	256.907	236.409	179.107	107.594	48.582	40.932	35.380	31.382	32.159
105.0	258.581	238.040	180.916	109.558	50.743	42.834	37.175	33.090	33.867
105.5	260.015	239.715	182.788	111.565	52.884	44.844	38.990	34.797	35.574
106.0	261.666	241.389	184.596	113.593	55.045	47.092	40.849	36.527	37.325
106.5	263.210	242.998	186.404	115.643	57.271	49.427	42.729	38.278	39.054
107.0	264.818	244.651	188.233	117.628	59.454	51.134	44.588	40.071	40.935
107.5	266.427	246.325	190.041	119.678	61.681	52.971	46.534	41.844	42.686
108.0	267.970	247.956	191.915	121.771	63.907	55.046	48.436	43.746	44.523
108.5	269.491	249.587	193.766	123.864	66.177	57.165	50.359	45.561	46.339
109.0	271.121	251.153	195.596	125.936	68.425	59.261	52.348	47.464	48.198
109.5	272.620	252.894	197.425	127.985	70.673	61.380	54.315	49.301	50.035
110.0	274.185	254.416	199.212	130.122	72.964	63.520	56.260	51.203	51.959
110.5	275.706	256.048	200.933	132.215	75.255	65.659	58.271	53.105	53.840

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CANDELA TABULATION - (Cont.)

111.0	277.249	257.570	202.740	134.308	77.568	67.821	60.281	55.029	55.763
111.5	278.750	259.158	204.571	136.445	79.880	69.983	62.269	56.975	57.600
112.0	280.184	260.747	206.356	138.560	82.193	72.166	64.323	58.920	59.459
112.5	281.727	262.313	208.186	140.717	84.571	74.392	66.398	60.844	61.361
113.0	283.118	263.880	209.994	142.832	86.862	76.618	68.429	62.767	63.307
113.5	284.640	265.424	211.780	145.034	89.175	78.867	70.526	64.756	65.295
114.0	286.095	266.903	213.565	147.148	91.552	81.071	72.666	66.723	67.240
114.5	287.530	268.426	215.352	149.284	93.844	83.341	75.216	68.755	69.186
115.0	288.878	269.971	217.138	151.443	96.178	85.589	77.940	70.765	71.175
115.5	290.249	271.494	218.902	153.579	98.534	87.880	79.885	72.732	73.098
116.0	291.726	272.908	220.710	155.715	100.890	90.128	81.225	74.742	75.195
116.5	293.053	274.432	222.409	157.852	103.203	92.376	83.084	76.752	77.162
117.0	294.531	275.955	224.239	160.009	105.559	94.710	85.549	78.805	79.216
117.5	295.836	277.348	225.959	162.124	107.959	96.937	88.315	80.772	81.161
118.0	297.141	278.848	227.702	164.282	110.250	99.272	90.520	82.848	83.193
118.5	298.380	280.242	229.531	166.396	112.627	101.563	92.033	84.814	85.203
119.0	299.708	281.591	231.231	168.555	114.984	103.811	93.719	86.933	87.278
119.5	301.035	283.157	232.973	170.669	117.340	106.037	95.794	88.965	89.223
120.0	302.296	284.573	234.694	172.762	119.739	108.307	97.913	91.040	91.385
120.5	303.579	285.944	236.415	174.812	122.074	110.620	100.052	93.093	93.374
121.0	304.863	287.293	238.158	176.948	124.343	112.868	102.171	95.190	95.406
121.5	306.168	288.709	239.836	179.019	126.721	115.094	104.289	97.676	97.437
122.0	307.235	290.081	241.558	181.155	129.077	117.342	106.494	100.508	99.512
122.5	308.562	291.192	243.213	183.227	131.389	119.569	108.612	102.928	101.609
123.0	309.868	292.607	244.913	185.298	133.724	121.860	110.774	104.528	103.684
123.5	311.173	293.935	246.634	187.347	136.080	124.087	112.935	106.452	105.824
124.0	312.262	295.112	248.355	189.397	138.371	126.356	115.119	108.959	108.699
124.5	313.567	296.462	250.010	191.490	140.728	128.648	117.280	111.077	112.439
125.0	314.701	297.855	251.732	193.561	143.019	130.831	119.485	112.504	114.837
125.5	315.768	299.011	253.431	195.633	145.375	133.100	121.647	114.017	115.962
126.0	317.051	300.382	255.023	197.617	147.666	135.348	123.830	116.027	116.351
126.5	318.118	301.582	256.721	199.645	149.957	137.553	125.970	118.103	118.167
127.0	319.252	302.953	258.529	201.673	152.292	139.844	128.131	120.200	120.242
127.5	320.363	304.109	260.077	203.637	154.605	142.071	130.315	122.275	122.339
128.0	321.430	305.286	261.581	205.686	156.874	144.362	132.520	124.371	124.478
128.5	322.541	306.657	263.367	207.714	159.231	146.653	134.616	126.490	126.575
129.0	323.652	307.835	264.915	209.699	161.565	148.880	136.886	128.651	128.715
129.5	323.639	308.990	266.463	211.705	163.878	151.127	139.112	130.748	130.855
130.0	324.772	310.146	268.250	213.712	166.169	153.375	141.317	132.844	132.995
130.5	325.451	311.301	269.776	215.740	168.460	155.667	143.522	134.941	135.156
131.0	326.518	312.218	271.324	217.703	170.795	157.915	145.661	137.060	137.274
131.5	326.787	313.224	272.872	219.688	173.151	160.141	147.845	139.221	139.415
132.0	328.480	314.163	274.420	221.651	175.463	162.367	150.093	141.361	141.619
132.5	329.613	315.080	275.968	223.614	177.820	164.637	152.276	143.501	143.758
133.0	330.098	315.869	277.516	225.534	180.154	166.864	154.545	145.598	145.899
133.5	331.165	316.592	279.064	227.519	182.424	169.134	156.728	148.019	148.039
134.0	332.709	317.986	280.590	229.526	184.715	171.403	158.977	150.137	150.244
134.5	333.172	318.925	281.922	231.489	187.028	173.608	161.203	152.299	152.362
135.0	334.261	320.319	283.470	233.495	189.341	175.920	163.385	154.482	154.633
135.5	335.610	321.020	285.018	235.242	191.654	178.190	165.634	156.687	156.729
136.0	336.051	321.981	286.500	237.249	193.945	180.460	167.817	158.783	158.934
136.5	337.572	322.942	287.876	239.190	196.214	182.642	170.022	160.966	161.030
137.0	337.603	324.076	289.186	241.175	198.528	184.934	172.248	163.107	163.322
137.5	338.864	325.253	290.756	242.966	200.776	187.226	174.388	165.246	165.483
138.0	339.327	325.976	291.589	244.884	203.044	189.429	176.570	167.385	167.512
138.5	340.654	327.370	292.727	246.653	205.228	191.656	178.797	169.655	169.826

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CANDELA TABULATION - (Cont.)

139.0	341.399	327.899	294.275	248.616	207.475	193.817	180.980	171.795	172.031
139.5	342.012	328.816	295.369	250.340	209.746	196.087	183.163	173.979	174.215
140.0	342.691	329.799	296.723	252.087	211.972	198.248	185.282	176.119	176.377
140.5	343.824	330.782	297.406	254.028	214.221	200.497	187.530	178.367	178.711
141.0	344.481	331.722	298.522	255.752	216.512	202.680	189.756	180.658	181.002
141.5	345.376	332.057	300.070	257.693	218.782	204.885	191.939	182.906	183.229
142.0	345.883	333.256	301.164	259.440	220.943	207.090	194.122	185.154	185.477
142.5	346.562	334.195	302.518	261.164	223.104	209.251	196.283	187.294	187.725
143.0	347.629	334.896	303.611	262.933	225.266	211.456	198.445	189.455	189.951
143.5	348.546	335.425	304.727	264.702	227.643	213.704	200.693	191.746	192.199
144.0	348.145	336.193	306.059	266.471	229.827	215.908	202.854	193.994	194.447
144.5	349.322	337.176	307.175	268.217	232.010	217.983	205.059	196.220	196.694
145.0	350.411	337.921	308.075	269.792	234.172	220.145	207.220	198.381	199.029
145.5	350.464	338.666	309.623	271.561	236.333	222.328	209.381	200.608	201.191
146.0	351.121	339.151	310.500	273.135	238.301	224.490	211.499	202.769	203.417
146.5	352.320	340.134	311.638	274.256	240.462	226.651	213.639	204.973	205.643
147.0	352.805	340.619	312.732	275.808	242.624	228.812	215.865	207.156	207.891
147.5	353.722	341.625	313.653	276.951	244.591	231.018	218.005	209.360	210.052
148.0	353.731	341.721	314.769	278.287	246.752	233.157	220.167	211.565	212.322
148.5	353.805	342.250	315.453	280.056	248.720	235.103	222.350	213.770	214.527
149.0	354.462	343.234	316.568	281.608	250.903	237.070	224.490	215.931	216.774
149.5	354.797	342.898	317.252	282.751	252.848	239.254	226.651	218.027	218.936
150.0	355.000	343.837	318.368	284.542	254.794	241.415	228.812	220.189	221.314
150.5	355.701	344.366	319.722	285.900	256.739	243.382	230.974	222.566	223.475
151.0	355.731	344.895	319.995	287.475	258.706	245.328	232.941	224.706	225.831
151.5	356.454	345.014	321.327	288.811	260.674	247.489	235.103	226.889	228.014
152.0	356.507	345.349	321.816	290.386	262.641	249.456	237.264	229.029	230.370
152.5	356.321	345.878	322.738	291.528	264.586	251.402	239.448	231.190	232.553
153.0	356.374	345.975	323.660	293.103	266.338	253.369	241.371	233.135	234.715
153.5	357.075	346.526	324.343	294.461	267.440	255.314	243.554	235.513	236.876
154.0	356.695	346.861	324.832	296.036	269.602	257.498	245.500	237.652	239.276
154.5	357.180	346.980	325.278	297.179	271.115	259.227	247.661	239.814	241.459
155.0	357.643	347.293	326.155	298.321	272.434	261.216	249.628	241.759	243.598
155.5	357.501	347.217	326.773	299.702	273.969	263.140	251.790	243.920	245.782
156.0	356.883	347.552	327.174	300.822	275.914	265.129	253.757	246.082	247.921
156.5	357.368	347.909	327.619	302.202	277.449	266.210	255.702	248.221	249.867
157.0	357.593	347.790	328.280	303.367	279.200	268.177	257.648	250.166	252.050
157.5	356.600	347.931	328.726	304.271	280.713	269.906	259.831	252.328	254.212
158.0	356.665	347.423	329.237	305.413	282.248	271.635	261.777	254.489	256.373
158.5	356.087	347.564	329.532	306.362	283.978	272.954	263.506	256.435	258.318
159.0	355.491	347.705	330.044	307.504	285.513	274.683	264.803	258.380	260.480
159.5	356.064	347.823	330.339	308.669	286.810	276.629	267.418	260.541	262.425
160.0	355.358	347.704	330.657	309.595	288.561	278.164	268.499	262.487	264.586
160.5	354.850	347.563	331.190	310.327	289.880	279.915	270.466	264.432	266.554
161.0	355.031	347.593	331.508	311.275	290.960	281.428	271.979	265.945	268.693
161.5	354.612	346.803	332.019	312.201	292.690	283.157	273.298	267.890	270.422
162.0	354.325	346.468	331.494	313.150	293.770	284.692	275.244	269.835	271.243
162.5	353.513	345.938	332.244	313.450	295.521	286.443	276.757	271.348	273.144
163.0	353.283	346.295	332.151	314.614	296.624	288.173	278.940	272.861	274.807
163.5	352.881	345.593	332.274	315.108	298.137	289.492	280.453	274.807	276.730
164.0	353.000	345.584	332.592	315.840	299.218	290.788	281.966	276.536	278.437
164.5	352.298	344.905	332.499	316.334	300.537	292.301	283.933	278.503	280.771
165.0	351.619	344.873	332.622	317.066	301.834	294.031	285.663	280.016	282.500
165.5	350.507	343.762	332.551	317.776	303.153	295.133	286.959	281.529	284.013
166.0	350.498	343.342	332.436	318.509	304.233	296.430	288.495	283.475	286.130
166.5	350.012	342.901	332.582	319.241	305.098	297.965	290.202	285.204	288.075

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167.0	349.483	342.460	332.295	319.130	306.201	299.046	291.953	286.739	289.804
167.5	348.543	341.630	332.224	319.668	307.087	300.343	293.034	288.706	291.317
168.0	347.043	340.995	332.153	320.207	308.168	301.662	294.785	290.435	293.069
168.5	346.817	340.487	332.083	320.767	309.249	302.959	296.536	292.187	294.776
169.0	345.512	339.741	331.580	320.440	310.352	304.255	297.595	293.483	296.267
169.5	344.854	338.934	331.509	321.172	310.978	305.120	299.324	295.429	297.541
170.0	344.196	338.104	331.222	321.300	311.626	306.439	300.643	296.726	299.271
170.5	343.561	337.729	330.525	321.644	312.297	307.520	301.745	298.261	300.806
171.0	342.233	336.944	330.692	321.794	312.729	308.600	302.848	299.774	302.125
171.5	341.187	336.158	329.757	321.944	313.832	309.271	304.167	301.331	303.854
172.0	340.618	335.179	329.730	322.288	314.719	310.352	305.464	302.195	305.106
172.5	339.595	334.221	329.033	322.222	315.345	311.432	306.761	303.924	306.813
173.0	338.161	333.436	328.380	322.178	315.799	312.513	308.058	305.221	307.656
173.5	337.397	332.457	328.182	322.566	316.210	312.945	309.138	306.302	309.191
174.0	336.590	331.693	327.313	322.522	316.426	314.026	310.003	307.621	310.682
174.5	335.328	330.304	326.704	322.478	317.096	315.107	311.062	308.918	311.330
175.0	334.066	329.346	326.095	322.023	317.745	315.755	311.926	309.976	312.605
175.5	332.827	328.433	325.508	322.456	318.155	316.165	313.029	311.079	313.470
176.0	332.496	327.542	324.944	322.434	318.609	317.052	314.088	312.182	315.221
176.5	330.696	326.262	324.401	322.239	318.803	317.484	315.407	313.285	315.891
177.0	329.760	325.460	323.470	322.239	318.847	318.133	315.623	314.343	316.972
177.5	328.371	324.246	323.210	321.807	319.258	318.349	316.703	315.208	317.599
178.0	327.069	323.510	322.755	321.807	319.474	318.997	317.330	316.527	319.350
178.5	325.684	322.169	322.107	321.591	319.474	319.646	317.978	317.369	320.408
179.0	324.753	321.714	321.242	321.591	319.690	319.862	319.081	318.234	320.841
179.5	323.867	320.872	320.810	321.159	319.690	320.294	319.513	318.905	322.592
180.0	320.506	320.506	320.506	320.506	320.506	320.506	320.506	320.506	320.506

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-930U-L13-930D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	119.00	N.A.	5.50
0-30	252.78	N.A.	11.70
0-40	414.65	N.A.	19.20
0-60	751.02	N.A.	34.70
0-80	1005.84	N.A.	46.50
0-90	1085.88	N.A.	50.20
10-90	1055.14	N.A.	48.80
20-40	295.65	N.A.	13.70
20-50	467.28	N.A.	21.60
40-70	479.59	N.A.	22.20
60-80	254.82	N.A.	11.80
70-80	111.60	N.A.	5.20
80-90	80.04	N.A.	3.70
90-110	190.92	N.A.	8.80
90-120	333.13	N.A.	15.40
90-130	496.71	N.A.	23.00
90-150	827.44	N.A.	38.20
90-180	1077.41	N.A.	49.80
110-180	886.48	N.A.	41.00
0-180	2163.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.74
10-20	88.26
20-30	133.78
30-40	161.87
40-50	171.63
50-60	164.74
60-70	143.22
70-80	111.60
80-90	80.04
90-100	79.93
100-110	111.00
110-120	142.21
120-130	163.58
130-140	170.32
140-150	160.41
150-160	132.35
160-170	87.22
170-180	30.40

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-930U-L13-930D-DMA-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	32
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	26
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	27	32	27	23	26	22	19	16
7	56	43	35	29	51	40	33	28	34	28	24	29	24	21	23	20	17	14
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	21	18	15	13
9	48	36	28	23	45	33	26	22	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	18	15	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-930U-L13-930D-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	18.8	19.7	19.7	20.6	21.9	12.9	13.8	13.8	14.7	16.0
	3H	21.8	22.6	22.8	23.6	24.9	14.2	15.1	15.2	16.0	17.3
	4H	23.4	24.1	24.3	25.1	26.4	14.7	15.4	15.6	16.4	17.7
	6H	25.0	25.7	26.0	26.7	28.0	14.9	15.6	15.9	16.6	17.9
	8H	25.8	26.5	26.8	27.5	28.9	14.9	15.6	15.9	16.6	18.0
	12H	26.8	27.4	27.8	28.4	29.8	15.0	15.6	15.9	16.6	18.0

UGR Viewed Endwise

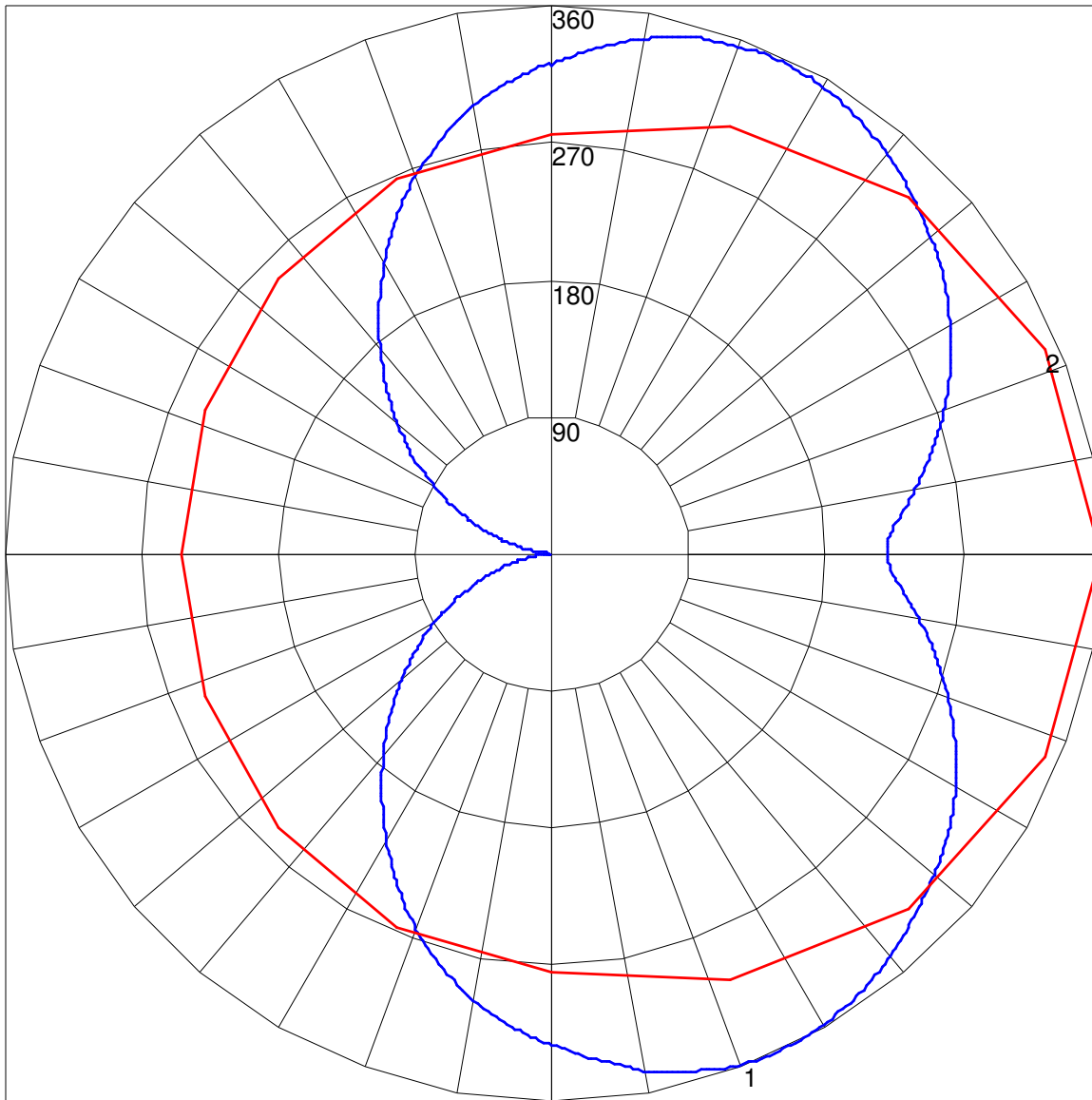
4H	2H	19.0	19.8	20.0	20.8	22.1	14.1	14.9	15.1	15.9	17.2
	3H	22.3	23.0	23.3	24.0	25.3	15.7	16.4	16.7	17.4	18.7
	4H	24.0	24.7	25.0	25.7	27.0	16.3	16.9	17.3	17.9	19.3
	6H	25.9	26.4	26.9	27.5	28.8	16.7	17.2	17.7	18.3	19.6
	8H	26.9	27.4	27.9	28.4	29.7	16.8	17.3	17.8	18.3	19.7
	12H	27.9	28.4	28.9	29.4	30.7	16.8	17.3	17.9	18.3	19.7

8H	4H	24.2	24.7	25.2	25.7	27.1	17.4	17.9	18.4	18.9	20.3
	6H	26.2	26.6	27.2	27.7	29.0	18.0	18.4	19.0	19.5	20.8
	8H	27.3	27.7	28.4	28.7	30.1	18.3	18.6	19.3	19.7	21.0
	12H	28.5	28.9	29.6	29.9	31.3	18.4	18.7	19.4	19.8	21.2

12H	4H	24.2	24.6	25.2	25.6	27.0	17.7	18.2	18.8	19.2	20.6
	6H	26.2	26.6	27.3	27.6	29.0	18.5	18.9	19.6	20.0	21.3
	8H	27.4	27.7	28.4	28.8	30.2	18.9	19.2	19.9	20.2	21.6

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 360.187 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.)