

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-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-L13-927U-L13-927D-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	2111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	8718	8124	7661
55	8666	7743	6937
65	8681	7439	6072
75	8832	7224	4808
85	9284	7320	2918

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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	315.856	315.856	315.856	315.856	315.856	315.856	315.856	315.856	315.856
0.5	316.300	316.827	316.240	317.443	315.290	316.928	314.801	314.784	314.814
1.0	317.161	317.579	317.401	317.701	315.096	316.456	313.897	313.881	313.932
1.5	318.301	318.587	317.743	318.389	315.096	315.573	313.425	312.783	312.425
2.0	319.268	319.833	318.515	318.452	314.860	314.906	312.563	311.901	311.542
2.5	320.665	320.689	319.545	318.731	314.644	314.476	311.702	311.255	310.702
3.0	321.589	321.977	320.360	318.794	314.429	314.045	311.056	309.963	309.605
3.5	322.814	323.112	320.959	319.524	314.429	313.163	309.980	309.081	308.959
4.0	324.426	324.248	321.989	319.587	313.977	312.302	309.549	308.004	307.452
4.5	325.156	325.189	322.804	319.456	313.762	312.086	308.473	306.928	306.139
5.0	325.562	326.366	323.508	320.166	313.331	311.010	307.181	305.830	304.868
5.5	327.064	327.328	323.740	320.250	312.686	309.933	306.535	304.754	304.222
6.0	328.073	328.096	324.361	320.119	312.234	309.697	305.674	303.871	302.909
6.5	328.888	329.552	325.002	320.009	311.824	308.857	304.555	302.343	301.638
7.0	329.702	330.473	325.428	320.051	311.588	308.169	303.479	301.030	300.110
7.5	330.534	331.241	325.876	319.963	310.490	307.092	302.187	299.954	298.603
8.0	332.133	331.793	326.428	319.401	309.844	306.016	301.110	298.641	297.096
8.5	333.550	332.603	326.981	319.722	309.629	305.370	300.013	297.349	295.610
9.0	335.487	333.456	327.471	319.375	308.553	304.272	298.700	295.606	294.103
9.5	336.444	334.198	327.766	319.481	307.886	302.980	297.408	294.293	293.672
10.0	337.512	335.350	328.040	319.177	307.240	302.098	296.331	293.001	291.304
10.5	338.559	336.029	328.529	318.852	306.163	301.042	295.018	291.473	290.248
11.0	339.196	336.514	328.825	318.332	305.711	299.945	293.490	290.396	288.741
11.5	339.770	337.278	328.904	317.813	304.420	298.653	292.219	288.653	286.804
12.0	340.128	337.826	329.200	317.724	303.558	297.986	290.907	287.145	285.102
12.5	341.369	338.805	329.301	317.205	302.891	296.243	289.399	285.638	283.595
13.0	342.069	339.332	329.444	316.685	302.030	295.166	287.871	283.895	281.484
13.5	342.617	340.033	329.587	316.381	300.523	293.874	286.558	282.151	280.235
14.0	343.659	340.475	329.751	315.883	299.856	292.131	284.621	280.429	278.360
14.5	344.381	340.939	329.443	315.127	298.780	291.054	283.092	278.706	276.444
15.0	344.393	341.167	329.544	314.629	297.251	289.741	281.585	276.984	274.527
15.5	344.840	341.416	329.514	313.658	295.960	288.428	279.842	275.046	273.450
16.0	345.030	341.879	329.269	312.860	294.862	286.921	278.529	273.324	270.846
16.5	345.958	342.343	329.669	312.577	293.785	285.414	276.806	271.817	269.554
17.0	346.975	342.161	329.639	311.606	292.709	283.671	275.278	269.858	268.283
17.5	347.134	342.862	329.373	310.398	291.181	282.573	273.319	268.545	266.109
18.0	347.746	342.680	329.107	309.900	289.674	280.399	271.382	266.607	264.602
18.5	348.573	342.949	328.777	308.971	288.145	279.107	270.499	265.531	262.643
19.0	348.365	343.219	328.705	308.300	286.854	277.364	268.777	263.593	260.705
19.5	349.340	343.252	328.160	307.434	285.325	276.051	266.818	261.655	258.531
20.0	349.820	343.113	328.088	306.290	284.034	274.328	265.957	259.718	256.594
20.5	349.959	343.382	327.349	305.361	282.721	272.585	263.998	257.759	254.419
21.0	350.077	343.221	327.061	304.086	280.783	270.862	262.060	255.821	252.482
21.5	350.431	343.318	326.537	303.435	279.470	269.980	260.338	253.668	250.329
22.0	350.890	343.241	326.035	302.591	277.748	267.827	258.379	251.730	248.155
22.5	351.155	343.165	325.511	301.489	276.004	266.278	256.420	249.793	246.217
23.0	350.969	343.282	325.008	300.366	274.476	264.125	254.483	247.640	244.043
23.5	351.019	343.054	324.700	298.812	272.538	263.263	252.524	245.487	241.890
24.0	351.263	343.020	323.982	297.989	271.246	261.520	250.565	243.528	239.521
24.5	351.402	342.943	323.479	296.734	269.288	259.582	248.627	241.396	237.584
25.0	351.110	342.887	322.546	295.827	268.642	257.602	246.668	239.222	235.409
25.5	350.603	342.401	322.043	294.725	267.113	255.665	244.731	237.069	233.041
26.0	350.742	342.283	321.325	292.977	265.606	253.706	242.557	235.131	231.082
26.5	350.471	341.733	320.628	291.638	263.647	251.768	240.598	232.978	228.693

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	349.985	341.399	320.167	290.536	261.689	249.788	238.445	230.825	226.540
27.5	349.972	341.281	318.867	289.434	259.945	247.850	236.486	228.651	224.366
28.0	350.110	340.731	318.018	287.450	258.007	245.676	234.527	226.498	221.997
28.5	349.540	340.182	317.363	286.542	256.285	243.739	232.374	224.345	219.823
29.0	349.075	340.063	316.708	284.794	254.132	241.780	230.221	221.976	217.670
29.5	348.977	339.083	315.880	283.004	252.173	239.627	228.047	219.823	215.410
30.0	348.812	338.492	315.010	281.881	250.214	237.432	226.109	217.649	213.171
30.5	348.263	338.006	314.140	280.348	248.277	235.494	223.935	215.475	211.018
31.0	348.186	337.672	313.291	278.773	246.339	233.320	221.782	213.300	208.779
31.5	347.721	337.295	311.990	278.081	244.380	231.167	219.629	211.169	206.562
32.0	346.999	336.746	311.357	276.291	242.227	229.208	217.455	208.950	204.430
32.5	347.137	335.981	310.250	275.383	240.268	227.034	215.280	206.797	202.170
33.0	345.963	335.668	309.338	273.850	238.330	224.881	213.106	204.537	199.910
33.5	346.165	334.667	308.210	272.081	236.156	222.707	210.953	202.363	197.735
34.0	345.873	333.924	306.868	270.528	234.003	220.554	208.779	200.231	195.475
34.5	345.193	333.159	305.525	268.737	231.829	218.595	206.604	198.014	193.279
35.0	344.386	332.395	304.634	266.968	229.676	216.377	204.473	195.839	191.147
35.5	343.879	331.866	303.700	265.415	227.738	214.203	202.341	193.643	188.908
36.0	343.068	330.671	302.400	263.646	225.585	212.028	200.167	191.490	186.669
36.5	342.603	329.906	301.487	261.877	223.217	209.854	197.906	189.380	184.452
37.0	341.859	329.378	299.908	260.086	221.043	207.744	195.796	187.163	182.213
37.5	341.200	328.204	298.544	258.317	218.890	205.506	193.643	184.924	180.103
38.0	340.929	327.224	297.674	256.548	216.737	203.331	191.447	182.814	177.821
38.5	339.582	326.481	295.901	254.779	214.541	201.113	189.294	180.618	175.561
39.0	338.923	325.952	294.752	252.795	212.302	198.982	187.098	178.465	173.364
39.5	337.985	324.757	294.916	251.005	210.128	196.808	184.988	176.269	171.190
40.0	337.735	324.014	293.594	249.236	207.888	194.569	182.857	174.116	169.080
40.5	336.430	323.228	292.273	247.252	205.650	192.395	180.639	171.963	166.905
41.0	335.450	322.096	290.909	245.461	203.475	190.220	178.486	169.789	164.689
41.5	334.360	321.116	289.587	243.519	201.193	187.960	176.290	167.679	162.557
42.0	334.090	320.330	288.008	241.771	198.975	185.892	174.138	165.483	160.426
42.5	333.194	319.371	286.665	240.023	196.736	183.697	171.963	163.287	158.315
43.0	332.083	317.745	285.280	238.318	194.497	181.479	169.810	161.220	156.077
43.5	331.555	316.981	283.958	236.375	192.151	179.262	167.593	159.003	153.988
44.0	330.423	316.001	282.421	234.433	189.955	177.087	165.375	156.828	151.943
44.5	329.527	315.042	280.821	232.470	187.672	174.934	163.201	154.697	149.812
45.0	328.868	314.277	279.499	230.701	185.433	172.653	161.048	152.501	147.723
45.5	327.458	312.888	277.941	228.760	183.194	170.456	158.809	150.391	145.528
46.0	327.360	311.929	276.383	226.840	180.912	168.238	156.656	148.260	143.418
46.5	326.055	311.380	275.040	224.898	178.651	166.043	154.438	146.086	141.394
47.0	325.569	311.046	273.482	222.914	176.305	163.847	152.263	143.997	139.349
47.5	324.846	310.150	271.902	221.036	173.980	161.608	150.089	141.844	137.174
48.0	323.972	308.892	270.407	219.159	171.676	159.304	147.957	139.799	135.064
48.5	322.561	307.760	268.786	217.260	169.415	157.065	145.740	137.668	132.976
49.0	321.687	306.564	267.249	215.296	167.155	154.847	143.566	135.601	130.844
49.5	320.833	305.369	265.670	213.333	164.873	152.673	141.434	133.513	128.820
50.0	320.951	304.431	264.090	211.413	162.569	150.456	139.303	131.424	126.689
50.5	319.409	303.236	262.553	209.429	160.287	148.174	137.107	129.443	124.623
51.0	319.118	302.083	261.016	207.509	158.026	145.977	134.975	127.334	122.535
51.5	318.049	300.909	259.222	205.524	155.765	143.717	132.801	125.245	120.511
52.0	316.980	299.498	257.621	203.454	153.462	141.542	130.712	123.200	118.530
52.5	316.063	298.324	256.084	201.513	151.201	139.347	128.581	121.155	116.463
53.0	314.932	297.108	254.311	199.486	148.919	137.107	126.428	119.109	114.375
53.5	313.800	295.955	252.710	197.480	146.701	134.847	124.275	117.086	112.287
54.0	312.752	294.738	251.045	195.431	144.398	132.672	122.144	114.997	110.434
54.5	311.620	293.412	249.314	193.361	142.180	130.519	120.034	112.995	108.390

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55.0	310.530	292.196	247.670	191.355	139.919	128.280	117.903	110.928	106.323
55.5	309.419	290.785	246.047	189.263	137.680	126.020	115.793	108.883	104.342
56.0	308.329	289.611	244.360	187.236	135.398	123.845	113.704	106.924	102.254
56.5	307.282	288.201	242.608	185.123	133.137	121.628	111.530	104.814	100.338
57.0	306.171	287.048	240.879	183.031	130.855	119.453	109.506	102.876	98.443
57.5	304.845	285.658	239.212	180.939	128.616	117.193	107.440	100.788	96.355
58.0	303.670	284.226	237.504	178.783	126.291	114.997	105.308	98.829	94.352
58.5	302.623	282.837	235.753	176.691	124.009	112.822	103.263	96.826	92.328
59.0	301.512	281.490	233.937	174.535	121.683	110.626	101.217	94.803	90.412
59.5	300.207	280.037	232.249	172.379	119.337	108.409	99.193	92.843	88.453
60.0	298.796	278.626	230.433	170.287	117.033	106.170	97.170	90.863	86.472
60.5	297.512	277.237	228.746	168.195	114.751	103.974	95.103	88.903	84.491
61.0	296.401	275.826	226.995	166.147	112.490	101.756	93.036	86.923	82.532
61.5	295.054	274.415	225.243	164.033	110.186	99.603	90.969	84.942	80.551
62.0	293.491	272.918	223.406	161.877	107.925	97.386	88.989	82.961	78.657
62.5	292.165	271.442	221.675	159.764	105.600	95.212	86.922	80.959	76.654
63.0	290.839	270.031	219.946	157.651	103.361	92.973	84.855	79.000	74.738
63.5	289.513	268.470	218.194	155.537	101.078	90.755	82.831	77.062	72.757
64.0	288.208	266.951	216.357	153.424	98.796	88.645	80.785	75.059	70.906
64.5	286.666	265.455	214.627	151.311	96.536	86.449	78.697	73.100	69.119
65.0	285.190	263.958	212.725	149.112	94.254	84.296	76.609	71.162	67.116
65.5	283.693	262.375	210.974	146.934	91.950	82.100	74.606	69.203	65.222
66.0	282.237	260.749	209.201	144.822	89.710	79.904	72.518	67.287	63.370
66.5	280.867	259.188	207.321	142.687	87.472	77.708	70.516	65.306	61.519
67.0	279.326	257.626	205.569	140.552	85.232	75.555	68.556	63.411	59.732
67.5	277.828	256.065	203.688	138.353	82.992	73.445	66.554	61.495	57.858
68.0	276.351	254.440	201.851	136.176	80.646	71.357	64.531	59.601	55.942
68.5	274.788	252.813	200.036	134.020	78.385	69.160	62.507	57.706	54.048
69.0	273.419	251.210	198.134	131.907	76.168	67.072	60.504	55.811	52.304
69.5	271.878	249.648	196.361	129.816	73.950	64.919	58.609	53.960	50.495
70.0	270.422	248.022	194.459	127.724	71.711	62.831	56.650	52.108	48.686
70.5	268.923	246.375	192.622	125.611	69.494	60.699	54.713	50.213	46.813
71.0	267.468	244.748	190.763	123.435	67.254	58.633	52.775	48.426	45.005
71.5	265.990	243.122	188.819	121.344	65.144	56.566	50.881	46.639	43.218
72.0	264.386	241.390	187.003	119.317	62.948	54.499	48.986	44.852	41.581
72.5	262.865	239.806	185.144	117.247	60.601	52.453	47.113	43.130	39.751
73.0	261.282	238.138	183.329	115.242	58.491	50.451	45.282	41.321	38.029
73.5	259.740	236.426	181.492	113.172	56.317	48.513	43.431	39.556	36.263
74.0	258.220	234.779	179.591	111.103	54.185	46.554	41.601	37.876	34.584
74.5	256.573	233.047	177.753	109.055	52.118	44.616	39.814	36.175	33.012
75.0	255.010	231.400	175.832	107.071	50.030	42.679	38.048	34.496	31.312
75.5	253.404	229.688	173.996	105.002	47.984	40.784	36.282	32.774	29.696
76.0	251.778	228.041	172.245	102.976	45.938	38.932	34.496	31.159	28.125
76.5	250.150	226.309	170.366	101.056	43.893	37.102	32.730	29.480	26.575
77.0	248.502	224.684	168.529	99.009	41.912	35.272	31.094	27.908	25.132
77.5	246.854	222.973	166.694	97.110	39.888	33.464	29.393	26.315	23.625
78.0	245.249	221.327	164.921	95.170	37.993	31.655	27.735	24.786	22.161
78.5	243.514	219.617	163.170	93.337	36.077	29.890	26.099	23.279	20.697
79.0	241.889	217.864	161.378	91.397	34.225	28.189	24.484	21.771	19.211
79.5	240.240	216.217	159.627	89.521	32.352	26.509	22.912	20.264	17.855
80.0	238.551	214.550	157.856	87.668	30.500	24.873	21.383	18.843	16.477
80.5	236.860	212.862	156.084	85.921	28.713	23.236	19.876	17.422	15.142
81.0	235.277	211.238	154.442	84.174	26.990	21.643	18.412	16.044	13.764
81.5	233.651	209.484	152.736	82.428	25.311	20.114	16.969	14.688	12.429
82.0	232.003	207.860	151.093	80.682	23.653	18.607	15.527	13.353	11.181
82.5	230.526	206.387	149.473	79.000	21.995	17.164	14.192	12.125	9.996

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PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	228.923	204.805	147.810	77.425	20.402	15.700	12.857	10.877	8.769
83.5	227.405	203.202	146.190	75.872	18.873	14.279	11.587	9.649	7.585
84.0	225.930	201.686	144.656	74.320	17.387	12.922	10.338	8.465	6.422
84.5	224.411	200.127	143.101	72.768	15.923	11.609	9.068	7.281	5.346
85.0	222.978	198.546	141.567	71.301	14.502	10.339	7.862	6.183	4.376
85.5	221.567	197.094	139.969	69.835	13.103	9.069	6.699	5.128	3.515
86.0	220.157	195.705	138.435	68.433	11.746	7.841	5.579	4.181	2.891
86.5	218.851	194.443	137.052	67.032	10.433	6.657	4.503	3.448	2.460
87.0	217.651	193.561	135.687	65.737	9.184	5.494	3.555	2.867	2.180
87.5	216.789	192.891	134.662	64.400	7.936	4.374	2.888	2.500	2.007
88.0	216.371	192.580	133.932	63.084	6.665	3.276	2.414	2.242	1.920
88.5	216.056	192.352	133.475	61.936	5.395	2.372	2.155	2.048	1.813
89.0	215.870	192.295	133.359	61.148	4.103	1.941	2.004	1.983	1.791
89.5	215.832	192.259	133.262	60.887	3.004	1.790	1.940	1.919	1.769
90.0	215.857	192.245	133.274	60.902	2.569	1.747	1.918	1.918	1.790
90.5	215.691	192.295	133.286	61.024	3.052	1.746	1.917	1.918	1.768
91.0	215.781	192.452	133.447	61.597	4.106	1.767	1.896	1.939	1.768
91.5	215.829	192.738	133.802	62.602	5.371	2.104	1.917	1.917	1.747
92.0	216.091	193.196	134.608	63.800	6.594	2.716	1.980	1.896	1.789
92.5	216.375	193.976	135.714	64.998	7.775	3.707	2.148	1.959	1.831
93.0	216.959	194.950	137.035	66.388	8.955	4.866	2.570	2.043	1.979
93.5	217.716	196.181	138.442	67.629	10.178	6.026	3.287	2.275	2.316
94.0	218.838	197.583	139.891	69.039	11.464	7.207	4.257	2.739	2.970
94.5	220.196	199.008	141.253	70.428	12.772	8.345	5.375	3.477	3.877
95.0	221.618	200.538	142.851	71.817	14.121	9.590	6.513	4.363	4.888
95.5	223.041	202.090	144.384	73.269	15.513	10.855	7.694	5.438	6.049
96.0	224.527	203.534	145.896	74.763	16.947	12.120	8.960	6.598	7.187
96.5	225.971	205.021	147.450	76.321	18.423	13.448	10.204	7.758	8.410
97.0	227.435	206.530	149.004	77.900	19.941	14.777	11.490	8.981	9.655
97.5	228.943	208.080	150.579	79.478	21.523	16.190	12.797	10.267	10.878
98.0	230.406	209.630	152.156	81.162	23.083	17.624	14.105	11.512	12.121
98.5	231.955	211.222	153.816	82.868	24.749	19.100	15.475	12.819	13.471
99.0	233.482	212.836	155.476	84.551	26.479	20.681	16.888	14.147	14.821
99.5	235.010	214.407	157.157	86.320	28.207	22.242	18.343	15.539	16.234
100.0	236.537	216.021	158.880	88.109	29.979	23.887	19.798	16.931	17.583
100.5	238.064	217.655	160.581	89.898	31.792	25.531	21.316	18.323	19.017
101.0	239.676	219.247	162.326	91.751	33.648	27.176	22.898	19.757	20.430
101.5	241.161	220.838	164.048	93.582	35.524	28.948	24.459	21.212	21.927
102.0	242.773	222.494	165.855	95.456	37.443	30.592	26.082	22.709	23.467
102.5	244.321	224.086	167.598	97.308	39.362	32.448	27.706	24.248	24.985
103.0	245.912	225.719	169.362	99.181	41.366	34.641	29.372	25.788	26.546
103.5	247.502	227.333	171.147	101.097	43.390	36.455	31.059	27.369	28.085
104.0	249.094	228.945	172.954	103.055	45.373	37.993	32.746	28.972	29.730
104.5	250.641	230.643	174.739	104.970	47.397	39.934	34.517	30.616	31.375
105.0	252.274	232.234	176.503	106.886	49.506	41.790	36.268	32.283	33.041
105.5	253.673	233.868	178.330	108.844	51.594	43.751	38.039	33.949	34.706
106.0	255.284	235.502	180.094	110.822	53.702	45.944	39.853	35.636	36.415
106.5	256.790	237.072	181.858	112.822	55.874	48.221	41.687	37.344	38.102
107.0	258.359	238.684	183.642	114.759	58.004	49.887	43.501	39.094	39.937
107.5	259.928	240.317	185.406	116.759	60.176	51.679	45.399	40.823	41.645
108.0	261.434	241.909	187.234	118.801	62.349	53.704	47.254	42.679	43.437
108.5	262.918	243.500	189.040	120.843	64.563	55.771	49.131	44.450	45.209
109.0	264.508	245.027	190.825	122.864	66.756	57.816	51.071	46.306	47.022
109.5	265.971	246.726	192.610	124.864	68.949	59.883	52.990	48.099	48.815
110.0	267.497	248.211	194.353	126.948	71.184	61.970	54.888	49.954	50.692
110.5	268.982	249.803	196.032	128.990	73.419	64.058	56.849	51.810	52.526

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	270.487	251.288	197.795	131.033	75.676	66.167	58.810	53.687	54.403
111.5	271.951	252.837	199.581	133.117	77.932	68.276	60.750	55.585	56.196
112.0	273.351	254.387	201.323	135.180	80.188	70.406	62.754	57.483	58.009
112.5	274.856	255.915	203.108	137.285	82.508	72.578	64.778	59.360	59.865
113.0	276.213	257.444	204.872	139.348	84.744	74.750	66.760	61.236	61.763
113.5	277.697	258.951	206.614	141.496	87.000	76.943	68.806	63.176	63.703
114.0	279.118	260.393	208.357	143.559	89.320	79.094	70.894	65.095	65.600
114.5	280.517	261.879	210.099	145.643	91.555	81.308	73.382	67.078	67.498
115.0	281.832	263.387	211.842	147.749	93.833	83.502	76.039	69.039	69.439
115.5	283.169	264.872	213.563	149.833	96.131	85.737	77.936	70.958	71.316
116.0	284.611	266.252	215.327	151.917	98.430	87.930	79.244	72.919	73.361
116.5	285.906	267.739	216.984	154.001	100.686	90.123	81.058	74.880	75.280
117.0	287.347	269.225	218.770	156.107	102.985	92.400	83.462	76.883	77.284
117.5	288.620	270.583	220.448	158.170	105.326	94.573	86.161	78.802	79.181
118.0	289.894	272.047	222.148	160.275	107.561	96.850	88.312	80.827	81.164
118.5	291.103	273.407	223.933	162.338	109.880	99.086	89.789	82.746	83.125
119.0	292.398	274.723	225.591	164.443	112.179	101.279	91.434	84.813	85.150
119.5	293.693	276.251	227.291	166.506	114.478	103.451	93.458	86.795	87.047
120.0	294.923	277.632	228.970	168.548	116.819	105.665	95.524	88.819	89.156
120.5	296.175	278.970	230.649	170.548	119.096	107.922	97.612	90.823	91.096
121.0	297.427	280.286	232.350	172.632	121.310	110.115	99.679	92.868	93.079
121.5	298.700	281.667	233.986	174.653	123.630	112.287	101.745	95.293	95.061
122.0	299.742	283.005	235.666	176.737	125.929	114.480	103.896	98.056	97.085
122.5	301.037	284.090	237.281	178.758	128.185	116.652	105.963	100.418	99.131
123.0	302.310	285.471	238.939	180.778	130.463	118.888	108.072	101.978	101.155
123.5	303.583	286.766	240.619	182.778	132.761	121.060	110.181	103.855	103.243
124.0	304.646	287.914	242.298	184.778	134.996	123.274	112.311	106.302	106.048
124.5	305.920	289.231	243.912	186.820	137.295	125.510	114.420	108.368	109.696
125.0	307.025	290.591	245.592	188.840	139.531	127.640	116.571	109.760	112.037
125.5	308.066	291.718	247.250	190.861	141.829	129.854	118.680	111.237	113.134
126.0	309.318	293.056	248.803	192.797	144.064	132.047	120.810	113.197	113.513
126.5	310.359	294.226	250.459	194.776	146.300	134.198	122.897	115.222	115.284
127.0	311.465	295.564	252.223	196.755	148.577	136.433	125.006	117.268	117.309
127.5	312.549	296.691	253.734	198.670	150.834	138.605	127.136	119.292	119.355
128.0	313.590	297.840	255.201	200.669	153.048	140.841	129.288	121.338	121.442
128.5	314.674	299.178	256.944	202.648	155.347	143.076	131.333	123.405	123.488
129.0	315.758	300.327	258.454	204.584	157.624	145.248	133.547	125.513	125.575
129.5	315.745	301.454	259.964	206.542	159.881	147.441	135.719	127.559	127.663
130.0	316.851	302.581	261.707	208.499	162.116	149.634	137.870	129.604	129.751
130.5	317.513	303.708	263.196	210.478	164.352	151.870	140.021	131.650	131.860
131.0	318.554	304.603	264.706	212.393	166.629	154.063	142.109	133.717	133.926
131.5	318.816	305.584	266.216	214.330	168.927	156.235	144.239	135.825	136.014
132.0	320.468	306.500	267.727	216.245	171.184	158.407	146.432	137.913	138.165
132.5	321.574	307.395	269.237	218.160	173.483	160.622	148.562	140.001	140.252
133.0	322.047	308.165	270.747	220.034	175.760	162.794	150.776	142.047	142.341
133.5	323.088	308.871	272.257	221.970	177.975	165.008	152.906	144.408	144.429
134.0	324.594	310.230	273.746	223.928	180.210	167.222	155.099	146.475	146.580
134.5	325.046	311.146	275.046	225.842	182.466	169.373	157.271	148.584	148.646
135.0	326.108	312.506	276.556	227.800	184.723	171.630	159.400	150.714	150.861
135.5	327.425	313.190	278.066	229.505	186.979	173.844	161.594	152.865	152.906
136.0	327.855	314.128	279.512	231.463	189.215	176.058	163.724	154.910	155.057
136.5	329.339	315.066	280.854	233.356	191.429	178.188	165.875	157.040	157.102
137.0	329.369	316.171	282.132	235.292	193.685	180.423	168.047	159.129	159.339
137.5	330.599	317.320	283.664	237.040	195.879	182.660	170.135	161.215	161.447
138.0	331.051	318.025	284.477	238.911	198.092	184.809	172.263	163.302	163.426
138.5	332.346	319.385	285.587	240.637	200.222	186.981	174.436	165.518	165.684

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	333.073	319.901	287.098	242.552	202.415	189.090	176.566	167.605	167.835
139.5	333.670	320.796	288.165	244.235	204.630	191.304	178.696	169.735	169.966
140.0	334.333	321.755	289.486	245.939	206.802	193.413	180.763	171.823	172.075
140.5	335.438	322.715	290.152	247.832	208.996	195.607	182.956	174.017	174.353
141.0	336.079	323.631	291.241	249.515	211.231	197.737	185.128	176.252	176.588
141.5	336.953	323.958	292.751	251.408	213.445	199.888	187.258	178.445	178.760
142.0	337.447	325.128	293.818	253.112	215.554	202.039	189.387	180.638	180.953
142.5	338.109	326.044	295.139	254.795	217.663	204.147	191.496	182.725	183.146
143.0	339.151	326.728	296.206	256.520	219.772	206.298	193.605	184.834	185.318
143.5	340.045	327.244	297.295	258.246	222.091	208.491	195.798	187.069	187.511
144.0	339.653	327.993	298.594	259.971	224.221	210.642	197.906	189.262	189.704
144.5	340.802	328.952	299.683	261.675	226.352	212.667	200.057	191.434	191.897
145.0	341.865	329.679	300.561	263.212	228.460	214.775	202.166	193.543	194.175
145.5	341.916	330.406	302.071	264.937	230.569	216.906	204.274	195.715	196.284
146.0	342.557	330.879	302.927	266.474	232.488	219.014	206.341	197.823	198.456
146.5	343.727	331.838	304.037	267.567	234.597	221.123	208.428	199.974	200.628
147.0	344.200	332.312	305.104	269.081	236.706	223.232	210.600	202.103	202.820
147.5	345.095	333.292	306.003	270.196	238.625	225.383	212.688	204.254	204.929
148.0	345.103	333.387	307.092	271.500	240.734	227.471	214.797	206.405	207.143
148.5	345.176	333.903	307.759	273.225	242.653	229.368	216.927	208.556	209.294
149.0	345.817	334.862	308.847	274.740	244.784	231.288	219.014	210.664	211.487
149.5	346.144	334.535	309.514	275.854	246.681	233.418	221.123	212.710	213.596
150.0	346.341	335.451	310.603	277.602	248.579	235.527	223.232	214.818	215.916
150.5	347.025	335.967	311.924	278.927	250.477	237.446	225.340	217.138	218.024
151.0	347.055	336.483	312.190	280.463	252.396	239.344	227.260	219.225	220.323
151.5	347.760	336.599	313.490	281.767	254.316	241.453	229.368	221.355	222.453
152.0	347.812	336.926	313.967	283.303	256.235	243.372	231.477	223.443	224.751
152.5	347.630	337.442	314.866	284.418	258.133	245.270	233.607	225.551	226.881
153.0	347.682	337.536	315.765	285.954	259.842	247.189	235.484	227.449	228.990
153.5	348.366	338.074	316.432	287.280	260.917	249.087	237.614	229.769	231.098
154.0	347.995	338.401	316.910	288.816	263.026	251.217	239.512	231.856	233.440
154.5	348.468	338.517	317.344	289.930	264.502	252.904	241.621	233.965	235.570
155.0	348.920	338.822	318.200	291.045	265.789	254.845	243.540	235.862	237.657
155.5	348.782	338.749	318.803	292.392	267.287	256.722	245.649	237.971	239.787
156.0	348.179	339.075	319.194	293.485	269.184	258.662	247.568	240.080	241.874
156.5	348.652	339.424	319.628	294.832	270.682	259.717	249.466	242.167	243.772
157.0	348.871	339.307	320.274	295.968	272.391	261.636	251.364	244.065	245.903
157.5	347.902	339.444	320.708	296.850	273.867	263.323	253.494	246.174	248.011
158.0	347.966	338.949	321.207	297.964	275.364	265.010	255.392	248.282	250.120
158.5	347.402	339.087	321.495	298.889	277.051	266.297	257.079	250.180	252.018
159.0	346.821	339.224	321.994	300.004	278.549	267.984	258.344	252.078	254.127
159.5	347.380	339.340	322.282	301.140	279.814	269.882	260.896	254.187	256.024
160.0	346.691	339.223	322.592	302.044	281.523	271.379	261.950	256.085	258.133
160.5	346.196	339.085	323.112	302.758	282.809	273.088	263.870	257.982	260.052
161.0	346.372	339.115	323.422	303.683	283.864	274.564	265.346	259.458	262.140
161.5	345.962	338.345	323.921	304.587	285.551	276.251	266.633	261.356	263.827
162.0	345.683	338.017	323.409	305.512	286.605	277.749	268.530	263.254	264.627
162.5	344.890	337.500	324.140	305.805	288.314	279.457	270.006	264.730	266.482
163.0	344.666	337.849	324.050	306.941	289.390	281.144	272.137	266.206	268.104
163.5	344.274	337.164	324.170	307.422	290.866	282.431	273.613	268.104	269.980
164.0	344.390	337.155	324.480	308.137	291.920	283.696	275.089	269.791	271.646
164.5	343.706	336.492	324.389	308.619	293.207	285.172	277.008	271.711	273.922
165.0	343.043	336.462	324.509	309.333	294.472	286.859	278.695	273.187	275.609
165.5	341.958	335.377	324.440	310.026	295.759	287.935	279.960	274.663	277.086
166.0	341.949	334.968	324.328	310.740	296.813	289.200	281.458	276.561	279.151
166.5	341.475	334.537	324.470	311.454	297.657	290.698	283.124	278.248	281.049

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	340.959	334.107	324.190	311.347	298.732	291.752	284.832	279.745	282.736
167.5	340.042	333.298	324.121	311.872	299.597	293.017	285.886	281.665	284.212
168.0	338.578	332.678	324.052	312.397	300.652	294.304	287.595	283.351	285.921
168.5	338.358	332.182	323.983	312.943	301.706	295.569	289.303	285.060	287.586
169.0	337.084	331.455	323.492	312.625	302.782	296.835	290.336	286.325	289.041
169.5	336.443	330.667	323.423	313.339	303.393	297.678	292.023	288.223	290.284
170.0	335.801	329.858	323.143	313.464	304.026	298.965	293.310	289.488	291.971
170.5	335.181	329.492	322.463	313.799	304.680	300.019	294.386	290.986	293.469
171.0	333.886	328.726	322.627	313.946	305.102	301.074	295.462	292.462	294.756
171.5	332.866	327.959	321.714	314.092	306.178	301.728	296.748	293.981	296.443
172.0	332.310	327.004	321.688	314.427	307.043	302.782	298.014	294.825	297.665
172.5	331.312	326.070	321.008	314.363	307.654	303.836	299.279	296.512	299.330
173.0	329.913	325.303	320.371	314.320	308.097	304.891	300.544	297.777	300.152
173.5	329.168	324.348	320.177	314.699	308.497	305.313	301.599	298.831	301.650
174.0	328.380	323.603	319.329	314.655	308.708	306.367	302.442	300.118	303.104
174.5	327.149	322.247	318.735	314.612	309.362	307.421	303.475	301.383	303.737
175.0	325.918	321.313	318.141	314.169	309.995	308.054	304.318	302.416	304.981
175.5	324.709	320.422	317.569	314.591	310.395	308.454	305.394	303.492	305.824
176.0	324.386	319.553	317.018	314.569	310.838	309.319	306.427	304.568	307.533
176.5	322.630	318.305	316.489	314.380	311.028	309.741	307.714	305.644	308.187
177.0	321.717	317.522	315.581	314.380	311.071	310.373	307.925	306.677	309.241
177.5	320.362	316.338	315.327	313.958	311.471	310.584	308.979	307.520	309.852
178.0	319.092	315.619	314.883	313.958	311.682	311.217	309.590	308.807	311.561
178.5	317.741	314.311	314.251	313.747	311.682	311.850	310.223	309.629	312.594
179.0	316.833	313.868	313.407	313.747	311.893	312.060	311.299	310.472	313.015
179.5	315.968	313.046	312.986	313.326	311.893	312.482	311.720	311.126	314.724
180.0	312.689	312.689	312.689	312.689	312.689	312.689	312.689	312.689	312.689

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	116.09	N.A.	5.50
0-30	246.61	N.A.	11.70
0-40	404.53	N.A.	19.20
0-60	732.70	N.A.	34.70
0-80	981.30	N.A.	46.50
0-90	1059.39	N.A.	50.20
10-90	1029.4	N.A.	48.80
20-40	288.44	N.A.	13.70
20-50	455.89	N.A.	21.60
40-70	467.89	N.A.	22.20
60-80	248.60	N.A.	11.80
70-80	108.88	N.A.	5.20
80-90	78.09	N.A.	3.70
90-110	186.27	N.A.	8.80
90-120	325.01	N.A.	15.40
90-130	484.59	N.A.	23.00
90-150	807.26	N.A.	38.20
90-180	1051.13	N.A.	49.80
110-180	864.86	N.A.	41.00
0-180	2110.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.99
10-20	86.10
20-30	130.52
30-40	157.92
40-50	167.45
50-60	160.72
60-70	139.72
70-80	108.88
80-90	78.09
90-100	77.98
100-110	108.29
110-120	138.74
120-130	159.59
130-140	166.17
140-150	156.50
150-160	129.13
160-170	85.09
170-180	29.65

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-927U-L13-927D-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	60	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-L13-927U-L13-927D-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

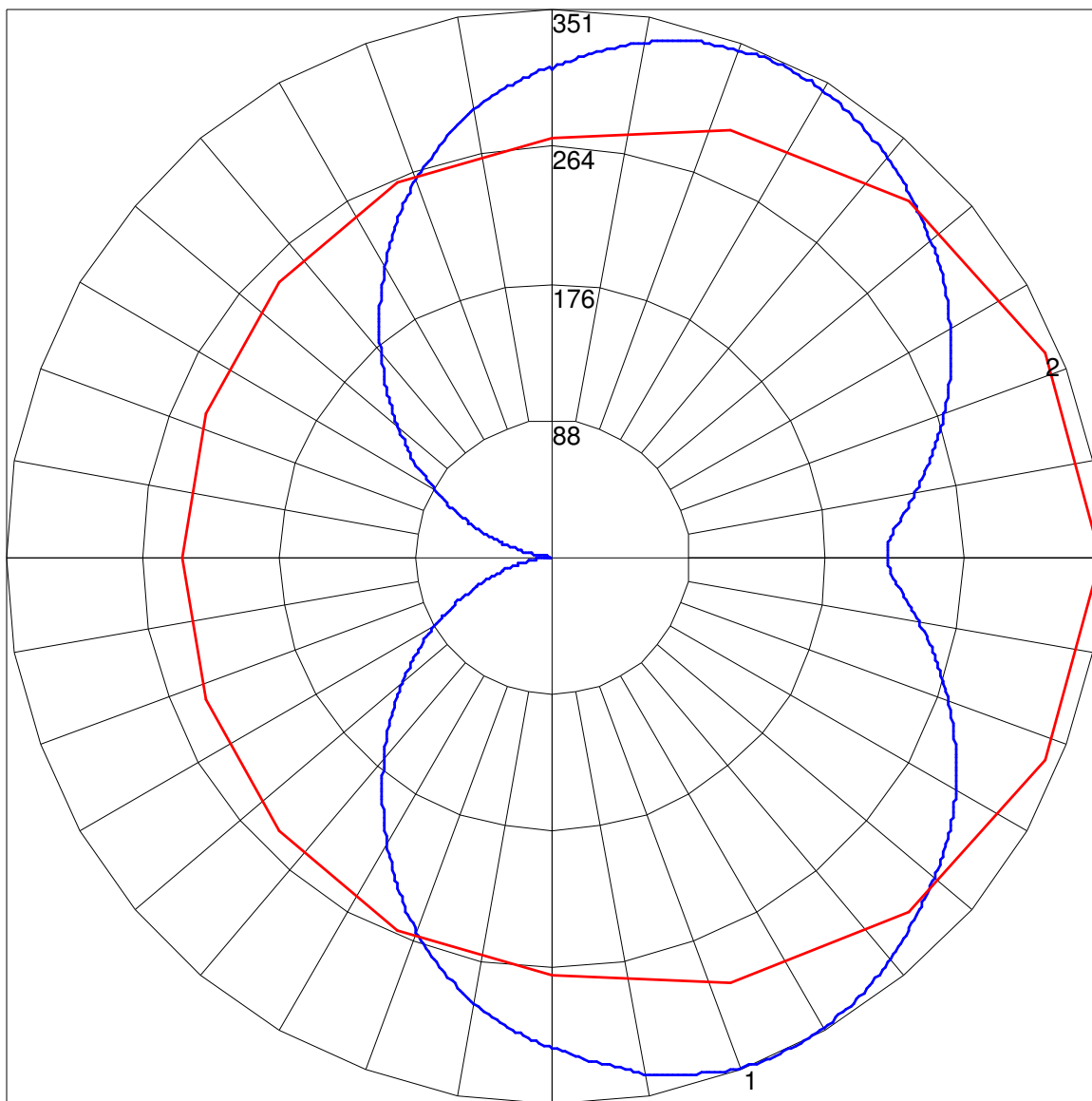
X=2H	Y=2H	18.7	19.6	19.6	20.5	21.8	12.8	13.7	13.7	14.6	15.9
	3H	21.7	22.5	22.7	23.5	24.8	14.1	15.0	15.1	15.9	17.2
	4H	23.3	24.0	24.2	25.0	26.3	14.6	15.3	15.5	16.3	17.6
	6H	24.9	25.6	25.9	26.6	27.9	14.8	15.5	15.8	16.5	17.8
	8H	25.7	26.4	26.7	27.4	28.8	14.8	15.5	15.8	16.5	17.9
	12H	26.7	27.3	27.7	28.3	29.7	14.9	15.5	15.9	16.5	17.9

UGR Viewed Endwise

4H	2H	19.0	19.7	19.9	20.7	22.0	14.0	14.8	15.0	15.8	17.1
	3H	22.2	22.9	23.2	23.9	25.2	15.6	16.3	16.6	17.3	18.6
	4H	23.9	24.6	24.9	25.6	26.9	16.2	16.8	17.2	17.8	19.2
	6H	25.8	26.3	26.8	27.4	28.7	16.6	17.1	17.6	18.2	19.5
	8H	26.8	27.3	27.8	28.3	29.6	16.7	17.2	17.7	18.2	19.6
	12H	27.8	28.3	28.8	29.3	30.6	16.7	17.2	17.8	18.2	19.6
8H	4H	24.1	24.6	25.1	25.6	27.0	17.3	17.8	18.3	18.8	20.2
	6H	26.1	26.5	27.1	27.6	28.9	17.9	18.3	19.0	19.4	20.8
	8H	27.2	27.6	28.3	28.6	30.0	18.2	18.5	19.2	19.6	20.9
	12H	28.4	28.8	29.5	29.8	31.2	18.3	18.6	19.3	19.7	21.1
12H	4H	24.1	24.5	25.1	25.5	26.9	17.6	18.1	18.7	19.1	20.5
	6H	26.1	26.5	27.2	27.5	28.9	18.4	18.8	19.5	19.9	21.2
	8H	27.3	27.6	28.3	28.7	30.1	18.8	19.1	19.8	20.1	21.5

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 351.402 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.)