

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-950U-L13-950D-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-L13-950U-L13-950D-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	2348
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	9698	9038	8523
55	9641	8614	7717
65	9657	8275	6755
75	9825	8037	5349
85	10328	8143	3246

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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	351.390	351.390	351.390	351.390	351.390	351.390	351.390	351.390	351.390
0.5	351.884	352.470	351.817	353.156	350.760	352.583	350.216	350.197	350.231
1.0	352.842	353.306	353.109	353.442	350.544	352.057	349.211	349.192	349.249
1.5	354.110	354.429	353.489	354.208	350.544	351.075	348.685	347.971	347.572
2.0	355.185	355.814	354.348	354.278	350.281	350.333	347.727	346.990	346.591
2.5	356.740	356.767	355.494	354.588	350.042	349.854	346.769	346.271	345.656
3.0	357.768	358.199	356.400	354.658	349.802	349.375	346.050	344.834	344.435
3.5	359.130	359.462	357.067	355.471	349.802	348.394	344.853	343.852	343.717
4.0	360.924	360.725	358.213	355.541	349.300	347.435	344.373	342.655	342.040
4.5	361.737	361.772	359.119	355.395	349.060	347.196	343.176	341.457	340.579
5.0	362.187	363.082	359.903	356.184	348.581	345.998	341.739	340.236	339.166
5.5	363.859	364.153	360.161	356.278	347.863	344.801	341.020	339.038	338.447
6.0	364.981	365.007	360.851	356.132	347.360	344.538	340.062	338.057	336.986
6.5	365.887	366.627	361.565	356.010	346.905	343.603	338.817	336.357	335.573
7.0	366.794	367.651	362.039	356.057	346.642	342.838	337.620	334.896	333.873
7.5	367.719	368.505	362.537	355.958	345.420	341.640	336.183	333.699	332.196
8.0	369.498	369.120	363.152	355.334	344.702	340.442	334.985	332.238	330.519
8.5	371.074	370.021	363.766	355.690	344.462	339.724	333.764	330.801	328.866
9.0	373.229	370.970	364.311	355.305	343.265	338.503	332.303	328.861	327.189
9.5	374.294	371.796	364.639	355.423	342.523	337.065	330.866	327.401	326.710
10.0	375.482	373.077	364.944	355.084	341.804	336.084	329.669	325.963	324.076
10.5	376.647	373.833	365.489	354.722	340.607	334.910	328.208	324.263	322.901
11.0	377.355	374.372	365.817	354.145	340.104	333.689	326.508	323.066	321.225
11.5	377.994	375.222	365.906	353.567	338.667	332.252	325.094	321.126	319.069
12.0	378.392	375.832	366.235	353.468	337.709	331.510	323.634	319.449	317.176
12.5	379.773	376.921	366.347	352.890	336.967	329.570	321.957	317.773	315.500
13.0	380.552	377.507	366.506	352.312	336.009	328.372	320.257	315.833	313.151
13.5	381.162	378.286	366.666	351.974	334.332	326.935	318.796	313.893	311.761
14.0	382.321	378.779	366.848	351.420	333.590	324.995	316.640	311.977	309.676
14.5	383.124	379.295	366.505	350.579	332.392	323.798	314.940	310.061	307.543
15.0	383.137	379.548	366.617	350.025	330.692	322.337	313.264	308.145	305.411
15.5	383.635	379.825	366.584	348.944	329.255	320.877	311.324	305.989	304.214
16.0	383.846	380.341	366.311	348.057	328.034	319.200	309.863	304.073	301.316
16.5	384.878	380.857	366.757	347.742	326.836	317.523	307.947	302.396	299.879
17.0	386.009	380.655	366.724	346.661	325.639	315.584	306.247	300.217	298.465
17.5	386.187	381.434	366.427	345.318	323.939	314.363	304.068	298.756	296.046
18.0	386.867	381.231	366.131	344.764	322.262	311.944	301.912	296.601	294.370
18.5	387.787	381.531	365.764	343.730	320.562	310.507	300.931	295.403	292.190
19.0	387.556	381.831	365.684	342.983	319.125	308.567	299.014	293.247	290.035
19.5	388.640	381.868	365.078	342.020	317.424	307.106	296.835	291.092	287.616
20.0	389.175	381.713	364.998	340.747	315.987	305.190	295.877	288.936	285.460
20.5	389.329	382.013	364.175	339.714	314.527	303.251	293.698	286.757	283.042
21.0	389.460	381.834	363.856	338.295	312.371	301.334	291.542	284.601	280.886
21.5	389.854	381.941	363.273	337.572	310.910	300.353	289.626	282.206	278.491
22.0	390.365	381.856	362.714	336.632	308.994	297.958	287.447	280.050	276.072
22.5	390.660	381.771	362.131	335.406	307.055	296.234	285.268	277.894	273.916
23.0	390.453	381.902	361.572	334.157	305.354	293.839	283.112	275.499	271.497
23.5	390.509	381.647	361.228	332.428	303.199	292.881	280.933	273.104	269.102
24.0	390.780	381.609	360.430	331.512	301.762	290.941	278.754	270.925	266.467
24.5	390.935	381.524	359.870	330.117	299.582	288.785	276.598	268.553	264.312
25.0	390.610	381.462	358.832	329.107	298.864	286.583	274.419	266.134	261.893
25.5	390.046	380.922	358.273	327.881	297.164	284.427	272.263	263.739	259.258
26.0	390.200	380.789	357.474	325.937	295.487	282.248	269.844	261.583	257.079
26.5	389.899	380.178	356.698	324.448	293.308	280.092	267.665	259.188	254.421

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CANDELA TABULATION - (Cont.)

27.0	389.358	379.807	356.186	323.221	291.129	277.889	265.270	256.793	252.026
27.5	389.343	379.675	354.739	321.995	289.189	275.734	263.091	254.374	249.607
28.0	389.498	379.064	353.795	319.788	287.033	273.315	260.911	251.979	246.972
28.5	388.863	378.452	353.066	318.778	285.117	271.159	258.516	249.583	244.553
29.0	388.346	378.320	352.338	316.833	282.722	268.980	256.121	246.949	242.158
29.5	388.237	377.230	351.417	314.842	280.543	266.585	253.702	244.553	239.643
30.0	388.053	376.572	350.449	313.592	278.363	264.143	251.547	242.135	237.153
30.5	387.442	376.031	349.481	311.887	276.208	261.987	249.128	239.716	234.757
31.0	387.357	375.660	348.536	310.135	274.052	259.568	246.733	237.296	232.267
31.5	386.840	375.241	347.089	309.365	271.873	257.173	244.337	234.925	229.800
32.0	386.036	374.630	346.384	307.373	269.478	254.994	241.919	232.457	227.428
32.5	386.190	373.779	345.153	306.363	267.298	252.575	239.499	230.062	224.914
33.0	384.884	373.431	344.138	304.658	265.143	250.180	237.080	227.548	222.399
33.5	385.109	372.318	342.884	302.690	262.724	247.761	234.685	225.128	219.980
34.0	384.784	371.490	341.390	300.962	260.329	245.366	232.266	222.757	217.466
34.5	384.027	370.640	339.896	298.970	257.910	243.187	229.847	220.290	215.022
35.0	383.130	369.789	338.905	297.002	255.515	240.720	227.476	217.871	212.651
35.5	382.565	369.201	337.866	295.274	253.359	238.301	225.105	215.428	210.160
36.0	381.663	367.872	336.419	293.306	250.964	235.882	222.685	213.032	207.670
36.5	381.146	367.021	335.405	291.338	248.329	233.463	220.171	210.685	205.202
37.0	380.318	366.433	333.648	289.346	245.910	231.116	217.823	208.219	202.711
37.5	379.585	365.127	332.130	287.378	243.515	228.625	215.428	205.727	200.365
38.0	379.284	364.037	331.162	285.410	241.120	226.206	212.985	203.380	197.826
38.5	377.785	363.210	329.189	283.442	238.677	223.739	210.590	200.937	195.311
39.0	377.052	362.622	327.911	281.234	236.186	221.368	208.147	198.542	192.868
39.5	376.008	361.292	328.094	279.243	233.767	218.949	205.799	196.099	190.449
40.0	375.731	360.465	326.624	277.275	231.276	216.458	203.429	193.704	188.101
40.5	374.279	359.591	325.153	275.067	228.785	214.039	200.961	191.309	185.682
41.0	373.188	358.332	323.636	273.076	226.366	211.620	198.566	188.890	183.216
41.5	371.976	357.241	322.165	270.915	223.827	209.105	196.123	186.543	180.844
42.0	371.675	356.367	320.409	268.971	221.360	206.805	193.728	184.100	178.474
42.5	370.678	355.301	318.915	267.026	218.869	204.363	191.309	181.657	176.126
43.0	369.443	353.492	317.374	265.128	216.378	201.896	188.914	179.357	173.636
43.5	368.855	352.641	315.903	262.968	213.768	199.428	186.447	176.891	171.312
44.0	367.596	351.551	314.193	260.807	211.324	197.010	183.980	174.471	169.036
44.5	366.599	350.484	312.413	258.623	208.785	194.615	181.561	172.101	166.665
45.0	365.866	349.634	310.942	256.655	206.294	192.076	179.166	169.658	164.342
45.5	364.297	348.088	309.209	254.495	203.804	189.632	176.675	167.310	161.899
46.0	364.188	347.021	307.476	252.360	201.265	187.165	174.279	164.939	159.552
46.5	362.736	346.410	305.982	250.199	198.749	184.723	171.812	162.520	157.301
47.0	362.195	346.038	304.248	247.992	196.139	182.279	169.393	160.196	155.026
47.5	361.392	345.042	302.491	245.903	193.552	179.788	166.974	157.802	152.606
48.0	360.419	343.642	300.828	243.814	190.989	177.226	164.603	155.526	150.259
48.5	358.849	342.383	299.024	241.701	188.474	174.735	162.136	153.155	147.936
49.0	357.877	341.053	297.314	239.517	185.960	172.268	159.717	150.856	145.564
49.5	356.927	339.723	295.557	237.333	183.421	169.849	157.345	148.533	143.313
50.0	357.058	338.680	293.801	235.197	180.858	167.382	154.975	146.210	140.941
50.5	355.343	337.350	292.091	232.989	178.319	164.843	152.532	144.005	138.643
51.0	355.018	336.067	290.381	230.854	175.804	162.400	150.160	141.659	136.320
51.5	353.829	334.761	288.384	228.646	173.289	159.885	147.741	139.335	134.068
52.0	352.640	333.192	286.604	226.343	170.726	157.466	145.418	137.060	131.864
52.5	351.621	331.886	284.894	224.183	168.211	155.023	143.047	134.785	129.565
53.0	350.361	330.532	282.921	221.928	165.672	152.532	140.652	132.509	127.242
53.5	349.102	329.250	281.140	219.697	163.205	150.017	138.256	130.258	124.919
54.0	347.936	327.896	279.287	217.417	160.643	147.598	135.885	127.934	122.858
54.5	346.677	326.421	277.362	215.114	158.175	145.203	133.538	125.707	120.584

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CANDELA TABULATION - (Cont.)

55.0	345.465	325.068	275.533	212.883	155.660	142.712	131.167	123.408	118.284
55.5	344.229	323.499	273.728	210.555	153.169	140.197	128.820	121.132	116.080
56.0	343.016	322.192	271.851	208.300	150.630	137.778	126.496	118.953	113.757
56.5	341.851	320.623	269.902	205.949	148.115	135.311	124.077	116.605	111.626
57.0	340.615	319.340	267.978	203.622	145.576	132.891	121.825	114.450	109.517
57.5	339.140	317.795	266.124	201.295	143.085	130.377	119.527	112.127	107.194
58.0	337.833	316.202	264.223	198.896	140.499	127.934	117.155	109.947	104.967
58.5	336.668	314.656	262.275	196.569	137.960	125.515	114.880	107.719	102.715
59.0	335.432	313.157	260.255	194.170	135.373	123.072	112.604	105.468	100.584
59.5	333.980	311.541	258.377	191.771	132.762	120.605	110.353	103.288	98.404
60.0	332.411	309.972	256.357	189.444	130.199	118.114	108.101	101.085	96.200
60.5	330.982	308.426	254.480	187.117	127.660	115.671	105.802	98.905	93.997
61.0	329.747	306.856	252.532	184.838	125.145	113.204	103.503	96.701	91.817
61.5	328.248	305.287	250.583	182.487	122.582	110.809	101.203	94.498	89.613
62.0	326.509	303.622	248.539	180.088	120.067	108.342	99.000	92.295	87.506
62.5	325.034	301.980	246.613	177.737	117.480	105.923	96.700	90.067	85.278
63.0	323.558	300.409	244.690	175.386	114.989	103.432	94.401	87.887	83.146
63.5	322.083	298.672	242.741	173.035	112.450	100.965	92.149	85.731	80.943
64.0	320.631	296.983	240.697	170.684	109.911	98.617	89.874	83.503	78.883
64.5	318.916	295.318	238.773	168.334	107.396	96.174	87.550	81.324	76.895
65.0	317.274	293.653	236.657	165.887	104.857	93.779	85.227	79.168	74.667
65.5	315.608	291.892	234.708	163.464	102.294	91.336	82.999	76.988	72.559
66.0	313.989	290.083	232.736	161.114	99.803	88.893	80.676	74.857	70.499
66.5	312.465	288.347	230.644	158.739	97.312	86.450	78.449	72.653	68.439
67.0	310.750	286.609	228.695	156.365	94.821	84.055	76.269	70.545	66.451
67.5	309.083	284.872	226.603	153.918	92.329	81.708	74.041	68.413	64.367
68.0	307.440	283.064	224.560	151.496	89.719	79.384	71.790	66.306	62.236
68.5	305.701	281.255	222.540	149.097	87.204	76.941	69.539	64.198	60.128
69.0	304.179	279.471	220.424	146.747	84.737	74.618	67.311	62.090	58.188
69.5	302.464	277.734	218.451	144.420	82.270	72.222	65.203	60.030	56.176
70.0	300.844	275.924	216.336	142.093	79.779	69.899	63.024	57.970	54.163
70.5	299.177	274.092	214.292	139.742	77.312	67.528	60.868	55.862	52.080
71.0	297.558	272.283	212.224	137.321	74.820	65.229	58.712	53.874	50.068
71.5	295.914	270.473	210.061	134.995	72.473	62.929	56.605	51.886	48.080
72.0	294.130	268.546	208.041	132.740	70.029	60.630	54.497	49.898	46.259
72.5	292.438	266.784	205.973	130.437	67.419	58.354	52.413	47.982	44.223
73.0	290.677	264.928	203.953	128.206	65.071	56.127	50.377	45.970	42.307
73.5	288.961	263.024	201.910	125.903	62.653	53.971	48.317	44.006	40.343
74.0	287.270	261.191	199.795	123.602	60.281	51.791	46.281	42.137	38.475
74.5	285.437	259.265	197.751	121.324	57.981	49.636	44.293	40.245	36.726
75.0	283.698	257.432	195.613	119.116	55.658	47.480	42.329	38.377	34.834
75.5	281.912	255.528	193.570	116.815	53.382	45.372	40.364	36.461	33.037
76.0	280.103	253.696	191.622	114.561	51.106	43.312	38.377	34.664	31.289
76.5	278.291	251.768	189.532	112.424	48.831	41.276	36.412	32.796	29.565
77.0	276.458	249.961	187.489	110.147	46.627	39.240	34.592	31.048	27.959
77.5	274.625	248.058	185.447	108.035	44.375	37.228	32.700	29.275	26.283
78.0	272.839	246.226	183.475	105.877	42.267	35.216	30.855	27.575	24.654
78.5	270.910	244.324	181.527	103.837	40.136	33.252	29.035	25.897	23.025
79.0	269.101	242.373	179.533	101.679	38.075	31.360	27.239	24.221	21.372
79.5	267.267	240.542	177.585	99.593	35.991	29.492	25.490	22.544	19.863
80.0	265.388	238.687	175.615	97.531	33.931	27.671	23.789	20.963	18.330
80.5	263.507	236.809	173.644	95.587	31.943	25.850	22.112	19.382	16.845
81.0	261.746	235.002	171.817	93.644	30.026	24.078	20.484	17.849	15.312
81.5	259.936	233.051	169.919	91.701	28.158	22.377	18.878	16.340	13.827
82.0	258.104	231.245	168.091	89.759	26.314	20.700	17.274	14.855	12.439
82.5	256.461	229.605	166.289	87.888	24.469	19.095	15.788	13.489	11.120

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CANDELA TABULATION - (Cont.)

83.0	254.677	227.846	164.439	86.136	22.697	17.467	14.303	12.100	9.755
83.5	252.988	226.063	162.636	84.408	20.996	15.885	12.890	10.735	8.438
84.0	251.347	224.376	160.930	82.681	19.344	14.376	11.501	9.418	7.144
84.5	249.657	222.641	159.200	80.954	17.715	12.915	10.088	8.100	5.947
85.0	248.064	220.883	157.494	79.323	16.134	11.502	8.746	6.879	4.869
85.5	246.493	219.267	155.715	77.691	14.577	10.089	7.452	5.705	3.910
86.0	244.925	217.722	154.009	76.132	13.068	8.723	6.207	4.651	3.216
86.5	243.472	216.317	152.470	74.573	11.607	7.406	5.009	3.836	2.736
87.0	242.137	215.337	150.952	73.133	10.218	6.112	3.955	3.189	2.425
87.5	241.177	214.591	149.812	71.645	8.828	4.866	3.212	2.782	2.233
88.0	240.713	214.245	148.999	70.181	7.415	3.645	2.685	2.494	2.136
88.5	240.363	213.992	148.491	68.904	6.002	2.639	2.398	2.279	2.017
89.0	240.155	213.929	148.361	68.027	4.564	2.159	2.230	2.206	1.992
89.5	240.113	213.889	148.255	67.737	3.342	1.991	2.158	2.135	1.968
90.0	240.141	213.872	148.267	67.753	2.858	1.943	2.134	2.134	1.992
90.5	239.956	213.928	148.281	67.889	3.395	1.943	2.133	2.134	1.967
91.0	240.056	214.103	148.460	68.527	4.568	1.966	2.109	2.157	1.967
91.5	240.109	214.422	148.855	69.644	5.975	2.341	2.133	2.133	1.943
92.0	240.401	214.931	149.751	70.978	7.336	3.021	2.203	2.109	1.990
92.5	240.717	215.798	150.982	72.311	8.649	4.124	2.390	2.179	2.037
93.0	241.367	216.882	152.452	73.857	9.963	5.414	2.859	2.273	2.201
93.5	242.209	218.251	154.017	75.237	11.323	6.704	3.657	2.531	2.577
94.0	243.457	219.811	155.629	76.806	12.754	8.018	4.736	3.047	3.304
94.5	244.968	221.396	157.144	78.351	14.209	9.284	5.979	3.869	4.313
95.0	246.550	223.099	158.922	79.896	15.710	10.668	7.246	4.853	5.438
95.5	248.133	224.825	160.628	81.512	17.258	12.076	8.559	6.050	6.729
96.0	249.787	226.432	162.309	83.174	18.854	13.483	9.968	7.341	7.996
96.5	251.392	228.086	164.038	84.907	20.495	14.961	11.352	8.630	9.357
97.0	253.022	229.765	165.767	86.664	22.184	16.439	12.783	9.991	10.741
97.5	254.699	231.489	167.520	88.420	23.944	18.011	14.237	11.422	12.101
98.0	256.326	233.213	169.273	90.293	25.680	19.606	15.692	12.807	13.485
98.5	258.050	234.985	171.120	92.190	27.534	21.249	17.216	14.261	14.987
99.0	259.749	236.780	172.967	94.063	29.457	23.008	18.788	15.739	16.488
99.5	261.449	238.528	174.837	96.031	31.381	24.744	20.406	17.287	18.061
100.0	263.147	240.323	176.754	98.021	33.351	26.574	22.025	18.836	19.561
100.5	264.847	242.141	178.647	100.012	35.369	28.404	23.714	20.384	21.157
101.0	266.640	243.912	180.588	102.072	37.434	30.233	25.474	21.979	22.728
101.5	268.292	245.682	182.503	104.110	39.521	32.205	27.210	23.598	24.394
102.0	270.084	247.525	184.513	106.194	41.656	34.033	29.017	25.264	26.107
102.5	271.807	249.295	186.453	108.255	43.791	36.098	30.823	26.976	27.796
103.0	273.577	251.113	188.415	110.339	46.020	38.538	32.676	28.689	29.532
103.5	275.346	252.907	190.402	112.470	48.272	40.556	34.553	30.448	31.245
104.0	277.117	254.701	192.412	114.649	50.477	42.268	36.430	32.231	33.075
104.5	278.838	256.590	194.397	116.779	52.729	44.426	38.400	34.061	34.904
105.0	280.655	258.360	196.360	118.910	55.075	46.491	40.348	35.915	36.758
105.5	282.212	260.178	198.392	121.089	57.398	48.673	42.318	37.768	38.611
106.0	284.004	261.995	200.354	123.290	59.743	51.112	44.336	39.645	40.512
106.5	285.679	263.742	202.317	125.515	62.160	53.646	46.377	41.545	42.388
107.0	287.425	265.536	204.302	127.669	64.530	55.499	48.395	43.492	44.429
107.5	289.170	267.353	206.264	129.894	66.946	57.493	50.506	45.416	46.330
108.0	290.845	269.123	208.298	132.166	69.363	59.745	52.570	47.481	48.324
108.5	292.496	270.893	210.307	134.438	71.826	62.045	54.658	49.451	50.295
109.0	294.265	272.593	212.293	136.686	74.266	64.320	56.816	51.516	52.312
109.5	295.892	274.482	214.278	138.911	76.706	66.620	58.952	53.510	54.306
110.0	297.591	276.134	216.218	141.230	79.192	68.942	61.063	55.574	56.395
110.5	299.242	277.905	218.086	143.502	81.679	71.265	63.245	57.639	58.436

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-950U-L13-950D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	300.917	279.558	220.047	145.774	84.189	73.611	65.427	59.727	60.524
111.5	302.546	281.281	222.034	148.093	86.699	75.957	67.585	61.838	62.518
112.0	304.103	283.005	223.972	150.388	89.210	78.326	69.814	63.950	64.535
112.5	305.777	284.706	225.958	152.730	91.791	80.743	72.066	66.038	66.600
113.0	307.286	286.406	227.921	155.025	94.277	83.159	74.271	68.125	68.711
113.5	308.938	288.083	229.858	157.414	96.787	85.599	76.546	70.284	70.869
114.0	310.518	289.688	231.797	159.710	99.368	87.992	78.869	72.418	72.981
114.5	312.075	291.340	233.735	162.028	101.855	90.455	81.637	74.624	75.092
115.0	313.538	293.018	235.674	164.371	104.389	92.896	84.593	76.806	77.251
115.5	315.026	294.670	237.589	166.689	106.946	95.382	86.704	78.941	79.339
116.0	316.629	296.205	239.552	169.008	109.503	97.822	88.159	81.122	81.614
116.5	318.070	297.859	241.395	171.327	112.013	100.262	90.177	83.304	83.749
117.0	319.673	299.513	243.381	173.669	114.571	102.795	92.852	85.533	85.978
117.5	321.090	301.024	245.249	175.964	117.175	105.212	95.854	87.668	88.089
118.0	322.507	302.652	247.140	178.306	119.661	107.746	98.247	89.920	90.295
118.5	323.852	304.165	249.126	180.601	122.242	110.233	99.890	92.055	92.476
119.0	325.293	305.630	250.971	182.943	124.799	112.673	101.720	94.354	94.729
119.5	326.733	307.329	252.861	185.238	127.357	115.089	103.972	96.559	96.840
120.0	328.102	308.865	254.729	187.510	129.961	117.552	106.271	98.811	99.186
120.5	329.495	310.354	256.597	189.735	132.495	120.063	108.593	101.040	101.344
121.0	330.888	311.819	258.489	192.053	134.958	122.503	110.892	103.316	103.550
121.5	332.304	313.355	260.310	194.301	137.538	124.919	113.191	106.014	105.755
122.0	333.462	314.844	262.178	196.620	140.095	127.359	115.585	109.088	108.007
122.5	334.903	316.050	263.975	198.868	142.606	129.776	117.884	111.715	110.283
123.0	336.320	317.586	265.820	201.116	145.140	132.263	120.230	113.451	112.535
123.5	337.737	319.027	267.689	203.340	147.697	134.679	122.576	115.539	114.858
124.0	338.919	320.305	269.556	205.565	150.184	137.143	124.946	118.261	117.978
124.5	340.335	321.769	271.353	207.837	152.741	139.630	127.292	120.560	122.037
125.0	341.565	323.282	273.221	210.084	155.228	141.999	129.685	122.108	124.641
125.5	342.724	324.536	275.065	212.333	157.785	144.462	132.031	123.751	125.861
126.0	344.116	326.025	276.793	214.487	160.272	146.902	134.401	125.932	126.283
126.5	345.275	327.326	278.636	216.688	162.758	149.296	136.723	128.185	128.254
127.0	346.505	328.815	280.599	218.889	165.292	151.782	139.069	130.461	130.506
127.5	347.711	330.069	282.279	221.020	167.803	154.199	141.439	132.713	132.782
128.0	348.869	331.347	283.911	223.245	170.266	156.685	143.832	134.988	135.105
128.5	350.075	332.836	285.850	225.446	172.823	159.172	146.108	137.288	137.380
129.0	351.281	334.113	287.530	227.600	175.357	161.589	148.571	139.633	139.703
129.5	351.266	335.367	289.210	229.778	177.867	164.029	150.988	141.909	142.025
130.0	352.496	336.621	291.149	231.956	180.354	166.468	153.380	144.185	144.348
130.5	353.233	337.875	292.805	234.157	182.841	168.956	155.774	146.460	146.694
131.0	354.391	338.871	294.485	236.287	185.375	171.395	158.096	148.760	148.993
131.5	354.683	339.962	296.166	238.442	187.932	173.812	160.466	151.106	151.316
132.0	356.521	340.982	297.846	240.572	190.442	176.228	162.905	153.428	153.709
132.5	357.751	341.977	299.526	242.703	192.999	178.692	165.275	155.751	156.030
133.0	358.277	342.834	301.206	244.787	195.533	181.108	167.738	158.027	158.354
133.5	359.436	343.618	302.886	246.941	197.997	183.572	170.108	160.654	160.677
134.0	361.111	345.131	304.543	249.119	200.484	186.035	172.548	162.953	163.070
134.5	361.613	346.150	305.988	251.250	202.994	188.428	174.964	165.300	165.369
135.0	362.795	347.663	307.669	253.428	205.504	190.938	177.333	167.669	167.833
135.5	364.260	348.424	309.349	255.324	208.014	193.401	179.774	170.063	170.108
136.0	364.738	349.467	310.957	257.502	210.501	195.865	182.143	172.338	172.501
136.5	366.390	350.510	312.451	259.608	212.964	198.234	184.536	174.708	174.776
137.0	366.423	351.741	313.872	261.763	215.475	200.721	186.952	177.031	177.264
137.5	367.792	353.018	315.576	263.707	217.915	203.209	189.275	179.352	179.610
138.0	368.294	353.803	316.481	265.789	220.377	205.600	191.643	181.674	181.811
138.5	369.735	355.316	317.716	267.709	222.747	208.016	194.060	184.138	184.323

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

139.0	370.543	355.890	319.396	269.839	225.187	210.362	196.429	186.461	186.717
139.5	371.208	356.885	320.583	271.711	227.651	212.826	198.799	188.831	189.087
140.0	371.945	357.953	322.053	273.607	230.067	215.172	201.098	191.153	191.433
140.5	373.175	359.020	322.795	275.713	232.508	217.612	203.539	193.593	193.967
141.0	373.888	360.039	324.006	277.585	234.995	219.982	205.955	196.080	196.454
141.5	374.860	360.403	325.686	279.691	237.458	222.375	208.324	198.520	198.870
142.0	375.410	361.705	326.873	281.587	239.804	224.768	210.693	200.960	201.310
142.5	376.147	362.724	328.342	283.459	242.150	227.114	213.039	203.282	203.750
143.0	377.305	363.485	329.530	285.379	244.496	229.507	215.385	205.628	206.166
143.5	378.300	364.059	330.741	287.298	247.076	231.947	217.825	208.115	208.606
144.0	377.864	364.892	332.186	289.218	249.446	234.339	220.170	210.554	211.046
144.5	379.142	365.959	333.397	291.114	251.816	236.592	222.564	212.970	213.485
145.0	380.324	366.768	334.374	292.823	254.162	238.937	224.910	215.316	216.020
145.5	380.381	367.577	336.054	294.743	256.508	241.307	227.255	217.733	218.366
146.0	381.094	368.103	337.006	296.452	258.643	243.653	229.554	220.079	220.782
146.5	382.396	369.170	338.241	297.668	260.989	245.999	231.877	222.471	223.198
147.0	382.923	369.697	339.428	299.353	263.335	248.345	234.293	224.840	225.637
147.5	383.918	370.788	340.429	300.593	265.471	250.739	236.615	227.233	227.983
148.0	383.927	370.893	341.640	302.043	267.817	253.061	238.961	229.626	230.447
148.5	384.008	371.467	342.382	303.963	269.952	255.172	241.331	232.018	232.840
149.0	384.721	372.534	343.593	305.648	272.322	257.308	243.653	234.364	235.279
149.5	385.085	372.170	344.334	306.888	274.433	259.678	245.999	236.639	237.626
150.0	385.304	373.189	345.545	308.832	276.544	262.024	248.345	238.985	240.206
150.5	386.065	373.764	347.015	310.306	278.656	264.159	250.691	241.566	242.552
151.0	386.098	374.338	347.312	312.015	280.791	266.270	252.826	243.888	245.109
151.5	386.883	374.467	348.757	313.466	282.926	268.616	255.172	246.258	247.479
152.0	386.940	374.830	349.288	315.175	285.062	270.751	257.518	248.580	250.035
152.5	386.739	375.404	350.289	316.415	287.173	272.863	259.888	250.926	252.405
153.0	386.796	375.509	351.289	318.124	289.074	274.998	261.976	253.037	254.751
153.5	387.557	376.107	352.031	319.598	290.271	277.109	264.346	255.618	257.097
154.0	387.145	376.471	352.562	321.308	292.617	279.479	266.457	257.940	259.702
154.5	387.671	376.600	353.045	322.547	294.259	281.356	268.803	260.286	262.071
155.0	388.173	376.939	353.998	323.787	295.690	283.515	270.938	262.397	264.393
155.5	388.020	376.858	354.668	325.286	297.356	285.603	273.284	264.743	266.763
156.0	387.349	377.221	355.103	326.502	299.468	287.762	275.419	267.089	269.085
156.5	387.875	377.609	355.586	328.000	301.134	288.935	277.531	269.411	271.197
157.0	388.119	377.479	356.304	329.264	303.035	291.070	279.642	271.522	273.567
157.5	387.041	377.632	356.788	330.245	304.677	292.947	282.012	273.868	275.913
158.0	387.112	377.081	357.343	331.485	306.343	294.824	284.123	276.214	278.258
158.5	386.485	377.234	357.663	332.515	308.220	296.255	286.000	278.325	280.370
159.0	385.838	377.387	358.218	333.754	309.886	298.132	287.408	280.437	282.716
159.5	386.460	377.516	358.539	335.018	311.293	300.243	290.247	282.783	284.827
160.0	385.693	377.386	358.883	336.024	313.194	301.909	291.420	284.894	287.173
160.5	385.143	377.233	359.463	336.818	314.625	303.810	293.555	287.005	289.308
161.0	385.338	377.266	359.807	337.848	315.798	305.452	295.197	288.648	291.630
161.5	384.883	376.408	360.362	338.853	317.675	307.329	296.629	290.759	293.507
162.0	384.572	376.044	359.792	339.882	318.848	308.995	298.740	292.870	294.398
162.5	383.691	375.469	360.606	340.208	320.749	310.896	300.382	294.512	296.461
163.0	383.441	375.857	360.505	341.471	321.946	312.773	302.752	296.155	298.266
163.5	383.005	375.095	360.639	342.008	323.588	314.204	304.394	298.266	300.353
164.0	383.134	375.085	360.984	342.802	324.761	315.612	306.036	300.143	302.206
164.5	382.372	374.348	360.883	343.338	326.192	317.254	308.172	302.278	304.739
165.0	381.635	374.314	361.017	344.133	327.600	319.131	310.048	303.920	306.615
165.5	380.428	373.107	360.940	344.904	329.032	320.328	311.456	305.562	308.258
166.0	380.418	372.652	360.815	345.698	330.205	321.735	313.122	307.674	310.556
166.5	379.891	372.173	360.973	346.493	331.143	323.401	314.975	309.550	312.667

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-950U-L13-950D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	379.316	371.694	360.662	346.373	332.340	324.574	316.876	311.216	314.544
167.5	378.296	370.794	360.585	346.957	333.302	325.982	318.049	313.352	316.186
168.0	376.668	370.104	360.508	347.541	334.475	327.413	319.949	315.229	318.087
168.5	376.424	369.553	360.431	348.149	335.648	328.821	321.850	317.129	319.939
169.0	375.006	368.743	359.885	347.795	336.845	330.228	322.999	318.537	321.558
169.5	374.293	367.867	359.808	348.590	337.525	331.167	324.876	320.648	322.941
170.0	373.579	366.967	359.497	348.728	338.229	332.598	326.307	322.056	324.818
170.5	372.889	366.560	358.740	349.102	338.956	333.771	327.504	323.722	326.484
171.0	371.448	365.707	358.922	349.264	339.426	334.944	328.701	325.364	327.916
171.5	370.313	364.855	357.907	349.427	340.623	335.672	330.133	327.054	329.792
172.0	369.695	363.792	357.878	349.801	341.585	336.845	331.540	327.992	331.152
172.5	368.584	362.753	357.122	349.729	342.265	338.018	332.948	329.869	333.005
173.0	367.028	361.900	356.413	349.681	342.758	339.191	334.355	331.277	333.919
173.5	366.200	360.837	356.197	350.102	343.203	339.660	335.528	332.450	335.585
174.0	365.323	360.009	355.254	350.054	343.438	340.833	336.467	333.881	337.204
174.5	363.954	358.500	354.593	350.006	344.165	342.006	337.616	335.289	337.907
175.0	362.584	357.461	353.932	349.513	344.869	342.710	338.554	336.438	339.291
175.5	361.239	356.470	353.296	349.982	345.314	343.155	339.751	337.635	340.229
176.0	360.879	355.503	352.683	349.958	345.808	344.117	340.900	338.832	342.130
176.5	358.926	354.114	352.094	349.748	346.018	344.587	342.332	340.029	342.858
177.0	357.911	353.243	351.083	349.748	346.066	345.290	342.566	341.178	344.031
177.5	356.402	351.926	350.801	349.279	346.511	345.525	343.739	342.116	344.711
178.0	354.990	351.126	350.308	349.279	346.746	346.229	344.419	343.548	346.611
178.5	353.486	349.671	349.604	349.044	346.746	346.933	345.123	344.462	347.760
179.0	352.476	349.178	348.666	349.044	346.981	347.167	346.320	345.400	348.230
179.5	351.514	348.263	348.196	348.575	346.981	347.636	346.789	346.128	350.130
180.0	347.866	347.866	347.866	347.866	347.866	347.866	347.866	347.866	347.866

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-2-00-L13-950U-L13-950D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	129.15	N.A.	5.50
0-30	274.36	N.A.	11.70
0-40	450.04	N.A.	19.20
0-60	815.13	N.A.	34.70
0-80	1091.7	N.A.	46.50
0-90	1178.58	N.A.	50.20
10-90	1145.21	N.A.	48.80
20-40	320.89	N.A.	13.70
20-50	507.17	N.A.	21.60
40-70	520.53	N.A.	22.20
60-80	276.57	N.A.	11.80
70-80	121.13	N.A.	5.20
80-90	86.88	N.A.	3.70
90-110	207.22	N.A.	8.80
90-120	361.57	N.A.	15.40
90-130	539.11	N.A.	23.00
90-150	898.07	N.A.	38.20
90-180	1169.38	N.A.	49.80
110-180	962.16	N.A.	41.00
0-180	2347.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.36
10-20	95.79
20-30	145.20
30-40	175.69
40-50	186.28
50-60	178.80
60-70	155.44
70-80	121.13
80-90	86.88
90-100	86.75
100-110	120.47
110-120	154.35
120-130	177.54
130-140	184.86
140-150	174.10
150-160	143.65
160-170	94.66
170-180	32.99

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-950U-L13-950D-DMA-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-2-00-L13-950U-L13-950D-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

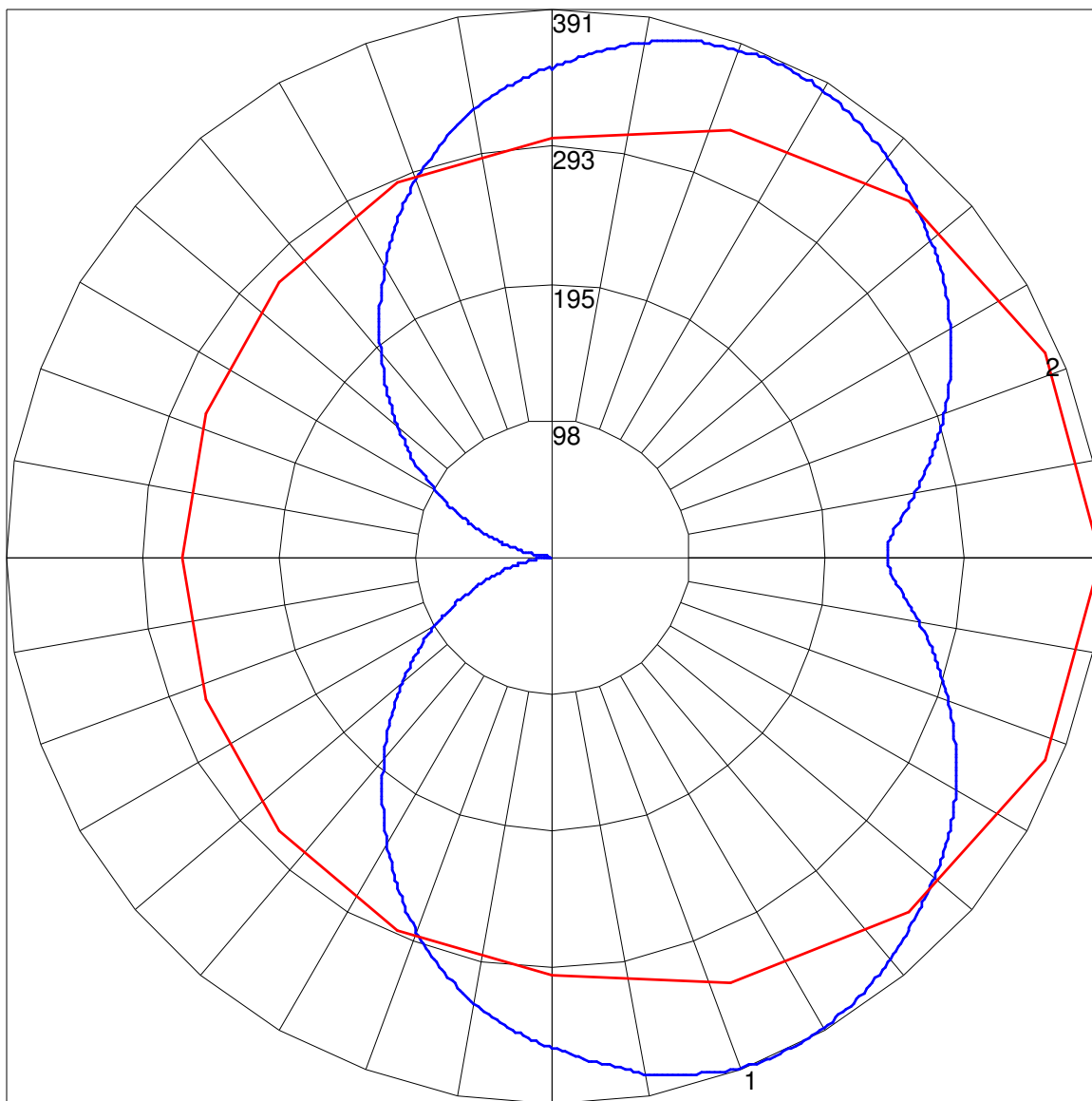
X=2H	Y=2H	19.1	20.0	20.0	20.9	22.2	13.2	14.1	14.1	15.0	16.3
	3H	22.1	22.9	23.1	23.9	25.2	14.5	15.4	15.5	16.3	17.6
	4H	23.7	24.4	24.6	25.4	26.7	15.0	15.7	15.9	16.7	18.0
	6H	25.3	26.0	26.3	27.0	28.3	15.2	15.9	16.2	16.9	18.2
	8H	26.1	26.8	27.1	27.8	29.2	15.2	15.9	16.2	16.9	18.3
	12H	27.1	27.7	28.1	28.7	30.1	15.3	15.9	16.2	16.9	18.3

UGR Viewed Endwise

4H	2H	19.3	20.1	20.3	21.1	22.4	14.4	15.2	15.4	16.2	17.5
	3H	22.6	23.3	23.6	24.3	25.6	16.0	16.7	17.0	17.7	19.0
	4H	24.3	25.0	25.3	26.0	27.3	16.6	17.2	17.6	18.2	19.6
	6H	26.2	26.7	27.2	27.8	29.1	17.0	17.5	18.0	18.6	19.9
	8H	27.2	27.7	28.2	28.7	30.0	17.1	17.6	18.1	18.6	20.0
	12H	28.2	28.7	29.2	29.7	31.0	17.1	17.6	18.2	18.6	20.0
8H	4H	24.5	25.0	25.5	26.0	27.4	17.7	18.2	18.7	19.2	20.6
	6H	26.5	26.9	27.5	28.0	29.3	18.3	18.7	19.3	19.8	21.1
	8H	27.6	28.0	28.7	29.0	30.4	18.5	18.9	19.6	20.0	21.3
	12H	28.8	29.2	29.9	30.2	31.6	18.7	19.0	19.7	20.1	21.5
12H	4H	24.5	24.9	25.5	25.9	27.3	18.0	18.5	19.1	19.5	20.9
	6H	26.5	26.9	27.6	27.9	29.3	18.8	19.2	19.9	20.3	21.6
	8H	27.7	28.0	28.7	29.1	30.5	19.2	19.5	20.2	20.5	21.9

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 390.935 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.)