

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-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-3-00-L19-940U-L19-940D-DMA-DIM-UNV_
[LUMINAIRE] 3' 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	3291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	33
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)	2.75 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9059	8533	8135
55	9006	8154	7429
65	9021	7859	6590
75	9178	7664	5360
85	9648	7814	3551

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES

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	492.457	492.457	492.457	492.457	492.457	492.457	492.457	492.457	492.457
0.5	493.149	493.971	493.055	494.931	491.574	494.128	490.811	490.785	490.832
1.0	494.492	495.142	494.865	495.333	491.271	493.391	489.403	489.377	489.456
1.5	496.269	496.715	495.398	496.405	491.271	492.015	488.666	487.665	487.107
2.0	497.776	498.656	496.603	496.504	490.903	490.976	487.323	486.290	485.731
2.5	499.954	499.992	498.208	496.938	490.567	490.304	485.980	485.283	484.421
3.0	501.396	501.999	499.478	497.037	490.232	489.633	484.973	483.269	482.710
3.5	503.304	503.770	500.413	498.175	490.232	488.257	483.295	481.893	481.703
4.0	505.818	505.540	502.019	498.274	489.527	486.915	482.623	480.215	479.353
4.5	506.957	507.007	503.289	498.070	489.192	486.579	480.945	478.536	477.306
5.0	507.588	508.843	504.387	499.176	488.520	484.900	478.931	476.825	475.325
5.5	509.931	510.343	504.749	499.307	487.513	483.222	477.924	475.147	474.318
6.0	511.504	511.541	505.716	499.103	486.809	482.853	476.581	473.771	472.271
6.5	512.774	513.811	506.716	498.932	486.170	481.544	474.837	471.388	470.290
7.0	514.044	515.245	507.381	498.997	485.802	480.471	473.158	469.341	467.907
7.5	515.340	516.443	508.078	498.859	484.091	478.792	471.144	467.663	465.557
8.0	517.834	517.304	508.940	497.983	483.084	477.114	469.466	465.616	463.207
8.5	520.043	518.568	509.802	498.484	482.748	476.107	467.755	463.602	460.890
9.0	523.063	519.896	510.565	497.944	481.069	474.396	465.708	460.884	458.541
9.5	524.556	521.054	511.025	498.108	480.030	472.382	463.694	458.837	457.869
10.0	526.221	522.850	511.452	497.634	479.023	471.006	462.015	456.822	454.177
10.5	527.853	523.909	512.216	497.127	477.344	469.360	459.968	454.440	452.531
11.0	528.846	524.665	512.676	496.317	476.640	467.649	457.586	452.761	450.181
11.5	529.740	525.856	512.800	495.507	474.626	465.635	455.604	450.043	447.160
12.0	530.299	526.711	513.261	495.369	473.283	464.595	453.557	447.693	444.508
12.5	532.234	528.237	513.418	494.559	472.243	461.877	451.208	445.343	442.158
13.0	533.326	529.059	513.641	493.749	470.900	460.198	448.825	442.625	438.867
13.5	534.180	530.151	513.865	493.275	468.551	458.184	446.778	439.907	436.919
14.0	535.805	530.841	514.121	492.498	467.511	455.466	443.757	437.221	433.996
14.5	536.930	531.564	513.640	491.320	465.832	453.787	441.374	434.536	431.008
15.0	536.949	531.919	513.797	490.543	463.450	451.741	439.024	431.850	428.019
15.5	537.646	532.307	513.751	489.029	461.436	449.694	436.306	428.829	426.341
16.0	537.942	533.030	513.368	487.785	459.724	447.344	434.259	426.144	422.280
16.5	539.389	533.753	513.993	487.344	458.046	444.994	431.574	423.794	420.266
17.0	540.974	533.470	513.946	485.830	456.367	442.276	429.191	420.740	418.285
17.5	541.223	534.561	513.531	483.947	453.985	440.564	426.137	418.693	414.895
18.0	542.177	534.278	513.116	483.170	451.635	437.175	423.116	415.672	412.545
18.5	543.466	534.698	512.602	481.722	449.252	435.161	421.740	413.993	409.491
19.0	543.142	535.119	512.489	480.675	447.238	432.442	419.055	410.972	406.470
19.5	544.661	535.171	511.640	479.326	444.856	430.395	416.001	407.951	403.080
20.0	545.411	534.953	511.527	477.542	442.841	427.710	414.658	404.930	400.059
20.5	545.627	535.373	510.375	476.093	440.795	424.991	411.604	401.876	396.670
21.0	545.810	535.122	509.927	474.105	437.773	422.306	408.583	398.855	393.648
21.5	546.362	535.273	509.110	473.091	435.726	420.930	405.897	395.498	390.292
22.0	547.079	535.153	508.326	471.774	433.041	417.574	402.843	392.477	386.902
22.5	547.492	535.034	507.510	470.056	430.323	415.158	399.789	389.456	383.881
23.0	547.202	535.217	506.726	468.305	427.940	411.801	396.768	386.099	380.491
23.5	547.280	534.861	506.245	465.883	424.919	410.458	393.714	382.742	377.134
24.0	547.660	534.807	505.125	464.599	422.905	407.740	390.660	379.688	373.442
24.5	547.877	534.688	504.341	462.644	419.851	404.719	387.639	376.364	370.421
25.0	547.422	534.602	502.886	461.228	418.844	401.632	384.585	372.974	367.031
25.5	546.631	533.844	502.102	459.510	416.461	398.611	381.564	369.618	363.338
26.0	546.847	533.659	500.983	456.785	414.111	395.557	378.174	366.597	360.284
26.5	546.425	532.802	499.896	454.698	411.057	392.536	375.120	363.240	355.559

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	545.667	532.281	499.178	452.980	408.003	389.449	371.763	359.883	353.202
27.5	545.646	532.096	497.150	451.262	405.285	386.428	368.709	356.493	349.812
28.0	545.863	531.240	495.827	448.168	402.264	383.038	365.655	353.136	346.120
28.5	544.973	530.383	494.806	446.752	399.578	380.017	362.298	349.780	342.730
29.0	544.248	530.198	493.785	444.027	396.221	376.963	358.942	346.087	339.373
29.5	544.096	528.670	492.494	441.236	393.167	373.606	355.552	342.730	335.849
30.0	543.838	527.748	491.138	439.485	390.113	370.183	352.531	339.340	332.359
30.5	542.982	526.990	489.781	437.096	387.092	367.162	349.141	335.950	329.001
31.0	542.863	526.469	488.457	434.640	384.071	363.773	345.784	332.560	325.511
31.5	542.138	525.883	486.429	433.560	381.017	360.416	342.427	329.236	322.054
32.0	541.011	525.026	485.441	430.769	377.660	357.362	339.038	325.778	318.730
32.5	541.228	523.834	483.716	429.354	374.606	353.972	335.647	322.421	315.207
33.0	539.397	523.346	482.294	426.965	371.585	350.615	332.257	318.897	311.682
33.5	539.712	521.786	480.536	424.206	368.195	347.226	328.900	315.507	308.292
34.0	539.257	520.626	478.442	421.784	364.839	343.869	325.510	312.184	304.768
34.5	538.196	519.434	476.349	418.993	361.449	340.815	322.120	308.726	301.344
35.0	536.938	518.242	474.959	416.235	358.092	337.357	318.797	305.336	298.021
35.5	536.148	517.418	473.504	413.812	355.071	333.967	315.473	301.912	294.530
36.0	534.883	515.555	471.476	411.054	351.714	330.577	312.083	298.555	291.039
36.5	534.158	514.363	470.054	408.296	348.022	327.187	308.559	295.265	287.582
37.0	532.998	513.539	467.592	405.505	344.632	323.898	305.269	291.809	284.091
37.5	531.971	511.708	465.465	402.747	341.275	320.407	301.913	288.317	280.802
38.0	531.549	510.181	464.109	399.989	337.918	317.017	298.489	285.028	277.244
38.5	529.448	509.021	461.343	397.231	334.495	313.559	295.132	281.604	273.719
39.0	528.420	508.198	459.553	394.137	331.004	310.237	291.708	278.248	270.295
39.5	526.958	506.334	459.809	391.346	327.613	306.846	288.418	274.824	266.905
40.0	526.569	505.175	457.748	388.588	324.122	303.355	285.096	271.468	263.615
40.5	524.534	503.950	455.687	385.494	320.632	299.966	281.638	268.110	260.225
41.0	523.006	502.185	453.561	382.703	317.242	296.575	278.281	264.720	256.769
41.5	521.307	500.657	451.500	379.675	313.683	293.051	274.857	261.431	253.445
42.0	520.885	499.432	449.038	376.950	310.226	289.828	271.501	258.007	250.122
42.5	519.488	497.937	446.944	374.224	306.735	286.405	268.111	254.583	246.832
43.0	517.756	495.402	444.784	371.565	303.244	282.947	264.754	251.361	243.342
43.5	516.933	494.210	442.724	368.537	299.585	279.490	261.296	247.904	240.085
44.0	515.168	492.682	440.327	365.509	296.161	276.100	257.839	244.514	236.896
44.5	513.772	491.187	437.832	362.448	292.603	272.743	254.449	241.191	233.574
45.0	512.744	489.995	435.771	359.690	289.112	269.186	251.092	237.767	230.318
45.5	510.545	487.829	433.342	356.663	285.622	265.761	247.601	234.477	226.894
46.0	510.392	486.334	430.913	353.670	282.063	262.303	244.244	231.154	223.605
46.5	508.358	485.477	428.819	350.643	278.538	258.880	240.787	227.764	220.449
47.0	507.600	484.957	426.390	347.549	274.880	255.456	237.396	224.508	217.261
47.5	506.473	483.560	423.927	344.622	271.254	251.965	234.007	221.151	213.871
48.0	505.110	481.598	421.597	341.694	267.663	248.374	230.683	217.963	210.581
48.5	502.911	479.833	419.069	338.733	264.138	244.883	227.226	214.640	207.325
49.0	501.547	477.970	416.672	335.672	260.614	241.425	223.836	211.417	204.002
49.5	500.217	476.106	414.210	332.611	257.056	238.035	220.512	208.162	200.846
50.0	500.400	474.644	411.748	329.617	253.464	234.578	217.190	204.906	197.523
50.5	497.997	472.780	409.351	326.524	249.906	231.020	213.766	201.817	194.301
51.0	497.542	470.983	406.955	323.531	246.381	227.596	210.443	198.528	191.046
51.5	495.875	469.152	404.157	320.436	242.856	224.071	207.052	195.272	187.890
52.0	494.209	466.953	401.662	317.209	239.265	220.681	203.796	192.083	184.802
52.5	492.780	465.122	399.265	314.182	235.740	217.258	200.473	188.894	181.579
53.0	491.015	463.226	396.500	311.021	232.182	213.766	197.117	185.706	178.323
53.5	489.250	461.428	394.004	307.895	228.724	210.242	193.760	182.550	175.068
54.0	487.617	459.532	391.408	304.700	225.133	206.851	190.437	179.294	172.180
54.5	485.852	457.464	388.710	301.472	221.675	203.495	187.148	176.173	168.993

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	484.153	455.567	386.147	298.345	218.151	200.004	183.824	172.950	165.769
55.5	482.421	453.368	383.616	295.084	214.660	196.480	180.535	169.761	162.681
56.0	480.722	451.538	380.986	291.923	211.101	193.089	177.278	166.707	159.426
56.5	479.088	449.338	378.255	288.628	207.576	189.632	173.889	163.417	156.438
57.0	477.356	447.541	375.558	285.367	204.019	186.241	170.733	160.396	153.483
57.5	475.288	445.374	372.960	282.106	200.527	182.718	167.511	157.140	150.228
58.0	473.458	443.142	370.296	278.743	196.902	179.293	164.188	154.086	147.106
58.5	471.824	440.976	367.567	275.482	193.344	175.903	160.999	150.964	143.951
59.0	470.092	438.875	364.735	272.120	189.718	172.480	157.810	147.808	140.963
59.5	468.058	436.610	362.103	268.758	186.060	169.022	154.654	144.754	137.908
60.0	465.858	434.411	359.272	265.497	182.468	165.532	151.499	141.665	134.820
60.5	463.856	432.245	356.642	262.236	178.910	162.108	148.277	138.611	131.732
61.0	462.124	430.044	353.911	259.042	175.385	158.650	145.054	135.522	128.677
61.5	460.024	427.845	351.181	255.747	171.793	155.293	141.832	132.434	125.589
62.0	457.588	425.512	348.316	252.385	168.268	151.837	138.744	129.346	122.635
62.5	455.520	423.210	345.617	249.090	164.642	148.446	135.521	126.225	119.513
63.0	453.452	421.010	342.921	245.796	161.151	144.955	132.299	123.170	116.525
63.5	451.384	418.575	340.190	242.501	157.593	141.497	129.143	120.148	113.437
64.0	449.350	416.208	337.325	239.206	154.035	138.208	125.954	117.026	110.551
64.5	446.946	413.875	334.629	235.912	150.511	134.784	122.698	113.972	107.764
65.0	444.644	411.541	331.664	232.483	146.953	131.427	119.442	110.950	104.642
65.5	442.310	409.074	328.932	229.088	143.361	128.003	116.320	107.896	101.688
66.0	440.041	406.538	326.168	225.794	139.869	124.580	113.064	104.908	98.801
66.5	437.905	404.105	323.237	222.466	136.379	121.156	109.943	101.820	95.915
67.0	435.501	401.670	320.506	219.138	132.887	117.799	106.887	98.866	93.128
67.5	433.166	399.235	317.574	215.709	129.395	114.509	103.765	95.878	90.208
68.0	430.863	396.701	314.710	212.314	125.737	111.253	100.611	92.924	87.220
68.5	428.426	394.166	311.879	208.953	122.212	107.829	97.455	89.970	84.266
69.0	426.293	391.665	308.913	205.659	118.755	104.573	94.333	87.016	81.547
69.5	423.889	389.231	306.149	202.398	115.297	101.216	91.379	84.129	78.728
70.0	421.620	386.695	303.185	199.137	111.806	97.960	88.325	81.242	75.907
70.5	419.283	384.127	300.320	195.842	108.349	94.638	85.304	78.288	72.987
71.0	417.013	381.591	297.422	192.449	104.857	91.415	82.282	75.502	70.168
71.5	414.709	379.056	294.391	189.189	101.568	88.192	79.329	72.716	67.382
72.0	412.209	376.355	291.559	186.029	98.143	84.970	76.374	69.930	64.830
72.5	409.838	373.886	288.661	182.802	94.485	81.781	73.454	67.245	61.976
73.0	407.370	371.285	285.831	179.675	91.194	78.659	70.601	64.425	59.291
73.5	404.966	368.616	282.968	176.448	87.805	75.638	67.714	61.672	56.538
74.0	402.595	366.048	280.003	173.222	84.481	72.583	64.860	59.053	53.921
74.5	400.027	363.348	277.138	170.029	81.258	69.562	62.074	56.401	51.470
75.0	397.590	360.779	274.142	166.936	78.002	66.541	59.322	53.784	48.818
75.5	395.087	358.111	271.279	163.710	74.812	63.587	56.568	51.098	46.300
76.0	392.552	355.543	268.549	160.551	71.623	60.700	53.783	48.581	43.850
76.5	390.012	352.842	265.620	157.558	68.434	57.847	51.030	45.962	41.433
77.0	387.443	350.308	262.757	154.366	65.345	54.993	48.478	43.512	39.184
77.5	384.873	347.641	259.895	151.406	62.190	52.174	45.827	41.028	36.834
78.0	382.371	345.074	257.132	148.382	59.236	49.354	43.243	38.644	34.551
78.5	379.667	342.408	254.402	145.523	56.248	46.601	40.691	36.294	32.268
79.0	377.132	339.675	251.607	142.499	53.361	43.950	38.174	33.944	29.952
79.5	374.563	337.108	248.877	139.574	50.440	41.331	35.723	31.594	27.837
80.0	371.928	334.508	246.116	136.685	47.553	38.779	33.339	29.379	25.689
80.5	369.293	331.877	243.354	133.961	44.767	36.228	30.989	27.163	23.608
81.0	366.824	329.344	240.793	131.238	42.080	33.744	28.707	25.015	21.459
81.5	364.289	326.611	238.133	128.515	39.462	31.360	26.457	22.900	19.378
82.0	361.720	324.078	235.572	125.793	36.877	29.010	24.209	20.819	17.432
82.5	359.418	321.781	233.046	123.170	34.293	26.761	22.127	18.905	15.584

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	356.918	319.316	230.453	120.715	31.809	24.479	20.045	16.958	13.672
83.5	354.551	316.816	227.927	118.293	29.425	22.262	18.065	15.045	11.825
84.0	352.251	314.452	225.536	115.874	27.109	20.148	16.118	13.198	10.012
84.5	349.883	312.021	223.111	113.453	24.826	18.100	14.137	11.352	8.334
85.0	347.650	309.557	220.720	111.167	22.611	16.119	12.258	9.640	6.823
85.5	345.449	307.293	218.228	108.881	20.429	14.139	10.444	7.995	5.480
86.0	343.250	305.127	215.837	106.696	18.314	12.225	8.699	6.518	4.507
86.5	341.215	303.159	213.679	104.510	16.266	10.379	7.020	5.376	3.835
87.0	339.344	301.784	211.552	102.492	14.320	8.566	5.543	4.470	3.398
87.5	337.999	300.739	209.954	100.407	12.373	6.820	4.502	3.898	3.129
88.0	337.347	300.254	208.816	98.355	10.392	5.108	3.764	3.496	2.994
88.5	336.857	299.900	208.103	96.566	8.412	3.698	3.360	3.194	2.826
89.0	336.566	299.811	207.922	95.337	6.397	3.026	3.125	3.092	2.792
89.5	336.507	299.755	207.772	94.930	4.683	2.791	3.024	2.991	2.759
90.0	336.546	299.732	207.789	94.953	4.006	2.724	2.990	2.991	2.791
90.5	336.287	299.810	207.809	95.144	4.759	2.723	2.989	2.990	2.757
91.0	336.428	300.056	208.060	96.038	6.402	2.755	2.956	3.023	2.757
91.5	336.502	300.502	208.613	97.603	8.374	3.281	2.989	2.989	2.724
92.0	336.911	301.216	209.869	99.472	10.281	4.234	3.087	2.956	2.789
92.5	337.353	302.431	211.595	101.340	12.122	5.779	3.350	3.054	2.855
93.0	338.264	303.950	213.654	103.507	13.962	7.587	4.007	3.186	3.085
93.5	339.444	305.869	215.848	105.442	15.869	9.396	5.125	3.547	3.611
94.0	341.193	308.055	218.106	107.640	17.874	11.237	6.637	4.270	4.630
94.5	343.311	310.277	220.231	109.806	19.913	13.011	8.380	5.422	6.044
95.0	345.529	312.662	222.722	111.970	22.017	14.951	10.155	6.802	7.622
95.5	347.747	315.081	225.112	114.235	24.187	16.924	11.996	8.478	9.431
96.0	350.064	317.333	227.468	116.564	26.423	18.896	13.969	10.287	11.206
96.5	352.315	319.652	229.891	118.994	28.723	20.968	15.909	12.095	13.113
97.0	354.598	322.004	232.315	121.455	31.090	23.039	17.914	14.002	15.053
97.5	356.948	324.421	234.771	123.916	33.557	25.242	19.953	16.008	16.959
98.0	359.229	326.838	237.228	126.542	35.989	27.477	21.991	17.948	18.899
98.5	361.644	329.320	239.817	129.200	38.587	29.779	24.127	19.986	21.003
99.0	364.026	331.837	242.405	131.825	41.283	32.245	26.331	22.057	23.108
99.5	366.408	334.286	245.025	134.583	43.978	34.678	28.599	24.227	25.311
100.0	368.789	336.802	247.712	137.372	46.740	37.242	30.867	26.397	27.414
100.5	371.170	339.349	250.365	140.161	49.568	39.806	33.234	28.567	29.650
101.0	373.684	341.832	253.085	143.050	52.461	42.371	35.701	30.803	31.853
101.5	375.999	344.312	255.770	145.905	55.387	45.133	38.134	33.071	34.187
102.0	378.511	346.894	258.587	148.827	58.379	47.696	40.665	35.406	36.588
102.5	380.924	349.376	261.305	151.714	61.370	50.590	43.197	37.806	38.955
103.0	383.406	351.923	264.055	154.635	64.494	54.009	45.794	40.206	41.388
103.5	385.884	354.438	266.839	157.622	67.651	56.837	48.424	42.672	43.788
104.0	388.366	356.952	269.656	160.675	70.741	59.236	51.055	45.171	46.352
104.5	390.778	359.599	272.438	163.661	73.897	62.262	53.816	47.735	48.917
105.0	393.324	362.080	275.189	166.647	77.185	65.155	56.546	50.333	51.514
105.5	395.506	364.627	278.037	169.700	80.441	68.212	59.307	52.930	54.111
106.0	398.018	367.174	280.787	172.785	83.728	71.632	62.135	55.560	56.775
106.5	400.366	369.622	283.537	175.903	87.115	75.182	64.995	58.224	59.405
107.0	402.812	372.137	286.320	178.923	90.435	77.780	67.823	60.952	62.266
107.5	405.259	374.683	289.070	182.041	93.822	80.574	70.782	63.648	64.929
108.0	407.606	377.164	291.920	185.225	97.209	83.730	73.675	66.542	67.723
108.5	409.919	379.644	294.736	188.409	100.661	86.953	76.601	69.303	70.486
109.0	412.399	382.026	297.519	191.560	104.080	90.142	79.626	72.197	73.313
109.5	414.679	384.674	300.301	194.677	107.499	93.364	82.618	74.991	76.108
110.0	417.059	386.989	303.019	197.927	110.984	96.619	85.577	77.885	79.035
110.5	419.374	389.471	305.637	201.111	114.469	99.874	88.635	80.778	81.895

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	421.721	391.788	308.386	204.295	117.987	103.162	91.692	83.705	84.821
111.5	424.004	394.203	311.170	207.545	121.505	106.450	94.717	86.663	87.616
112.0	426.186	396.619	313.886	210.762	125.023	109.771	97.840	89.622	90.442
112.5	428.533	399.002	316.669	214.044	128.640	113.157	100.997	92.549	93.336
113.0	430.648	401.385	319.420	217.260	132.125	116.543	104.087	95.475	96.295
113.5	432.963	403.734	322.136	220.609	135.643	119.963	107.276	98.499	99.320
114.0	435.177	405.984	324.852	223.825	139.260	123.317	110.532	101.491	102.279
114.5	437.359	408.300	327.569	227.075	142.745	126.769	114.411	104.582	105.238
115.0	439.409	410.651	330.286	230.358	146.296	130.189	118.553	107.640	108.263
115.5	441.494	412.967	332.970	233.607	149.880	133.674	121.512	110.632	111.189
116.0	443.741	415.118	335.720	236.856	153.463	137.093	123.551	113.689	114.378
116.5	445.760	417.436	338.304	240.106	156.981	140.512	126.379	116.747	117.370
117.0	448.007	419.753	341.087	243.389	160.565	144.063	130.127	119.870	120.494
117.5	449.993	421.870	343.704	246.605	164.215	147.450	134.336	122.862	123.452
118.0	451.978	424.153	346.355	249.888	167.700	151.001	137.688	126.019	126.544
118.5	453.863	426.273	349.138	253.104	171.316	154.487	139.991	129.010	129.601
119.0	455.882	428.326	351.723	256.387	174.901	157.906	142.556	132.233	132.758
119.5	457.901	430.707	354.373	259.603	178.484	161.292	145.712	135.323	135.716
120.0	459.820	432.860	356.991	262.787	182.134	164.744	148.934	138.479	139.005
120.5	461.772	434.946	359.609	265.904	185.685	168.263	152.189	141.603	142.030
121.0	463.723	436.999	362.260	269.154	189.137	171.682	155.411	144.793	145.121
121.5	465.709	439.152	364.812	272.304	192.754	175.068	158.633	148.573	148.211
122.0	467.332	441.239	367.431	275.554	196.337	178.488	161.987	152.881	151.367
122.5	469.351	442.929	369.949	278.704	199.855	181.875	165.209	156.563	154.556
123.0	471.337	445.082	372.534	281.854	203.407	185.360	168.497	158.996	157.713
123.5	473.322	447.101	375.153	284.972	206.990	188.747	171.785	161.922	160.968
124.0	474.979	448.892	377.770	288.090	210.475	192.199	175.106	165.737	165.341
124.5	476.964	450.945	380.288	291.274	214.060	195.685	178.394	168.959	171.029
125.0	478.688	453.065	382.907	294.424	217.545	199.005	181.747	171.129	174.678
125.5	480.311	454.822	385.491	297.575	221.128	202.457	185.036	173.431	176.388
126.0	482.263	456.908	387.912	300.593	224.613	205.877	188.356	176.488	176.980
126.5	483.886	458.733	390.495	303.678	228.098	209.231	191.611	179.645	179.742
127.0	485.610	460.819	393.246	306.763	231.650	212.716	194.899	182.834	182.898
127.5	487.300	462.576	395.601	309.750	235.167	216.102	198.220	185.991	186.088
128.0	488.924	464.367	397.888	312.867	238.620	219.587	201.574	189.180	189.343
128.5	490.614	466.453	400.605	315.952	242.204	223.073	204.763	192.402	192.532
129.0	492.304	468.244	402.960	318.971	245.755	226.459	208.216	195.689	195.787
129.5	492.283	470.002	405.315	322.023	249.273	229.878	211.602	198.879	199.042
130.0	494.007	471.759	408.032	325.075	252.757	233.298	214.956	202.068	202.297
130.5	495.040	473.517	410.353	328.160	256.243	236.783	218.310	205.257	205.585
131.0	496.663	474.912	412.708	331.146	259.794	240.203	221.564	208.480	208.807
131.5	497.072	476.441	415.062	334.165	263.378	243.589	224.885	211.768	212.062
132.0	499.648	477.870	417.417	337.151	266.895	246.975	228.304	215.023	215.416
132.5	501.372	479.265	419.772	340.137	270.480	250.428	231.625	218.278	218.669
133.0	502.109	480.465	422.127	343.058	274.031	253.814	235.077	221.467	221.926
133.5	503.732	481.565	424.481	346.076	277.483	257.267	238.398	225.150	225.181
134.0	506.080	483.685	426.802	349.129	280.968	260.719	241.818	228.372	228.535
134.5	506.784	485.114	428.828	352.115	284.486	264.073	245.204	231.660	231.757
135.0	508.441	487.233	431.183	355.168	288.004	267.591	248.524	234.981	235.210
135.5	510.493	488.300	433.538	357.824	291.523	271.043	251.945	238.335	238.398
136.0	511.164	489.762	435.792	360.877	295.008	274.496	255.265	241.523	241.753
136.5	513.478	491.224	437.885	363.829	298.460	277.816	258.619	244.844	244.940
137.0	513.524	492.948	439.877	366.848	301.978	281.301	262.005	248.100	248.427
137.5	515.443	494.739	442.266	369.572	305.398	284.788	265.260	251.353	251.715
138.0	516.147	495.839	443.533	372.491	308.848	288.139	268.578	254.608	254.800
138.5	518.166	497.958	445.264	375.181	312.170	291.525	271.966	258.061	258.321

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	519.299	498.763	447.619	378.167	315.589	294.813	275.287	261.316	261.675
139.5	520.231	500.158	449.282	380.790	319.042	298.266	278.608	264.637	264.996
140.0	521.264	501.654	451.342	383.447	322.429	301.554	281.830	267.892	268.285
140.5	522.988	503.150	452.382	386.399	325.849	304.974	285.250	271.312	271.836
141.0	523.987	504.578	454.079	389.022	329.334	308.295	288.636	274.797	275.321
141.5	525.348	505.088	456.433	391.974	332.786	311.648	291.957	278.216	278.707
142.0	526.119	506.912	458.097	394.631	336.074	315.002	295.277	281.636	282.127
142.5	527.152	508.341	460.157	397.254	339.362	318.290	298.565	284.890	285.546
143.0	528.775	509.407	461.820	399.945	342.650	321.643	301.852	288.178	288.932
143.5	530.170	510.212	463.517	402.635	346.266	325.062	305.272	291.663	292.352
144.0	529.559	511.379	465.543	405.326	349.587	328.416	308.559	295.082	295.771
144.5	531.350	512.875	467.241	407.983	352.909	331.572	311.913	298.468	299.190
145.0	533.007	514.008	468.609	410.378	356.196	334.860	315.200	301.756	302.741
145.5	533.087	515.142	470.964	413.068	359.484	338.181	318.488	305.142	306.029
146.0	534.086	515.879	472.299	415.463	362.477	341.469	321.709	308.430	309.415
146.5	535.911	517.375	474.029	417.167	365.764	344.756	324.964	311.783	312.802
147.0	536.648	518.112	475.693	419.529	369.052	348.044	328.351	315.103	316.220
147.5	538.043	519.642	477.095	421.267	372.045	351.399	331.606	318.456	319.508
148.0	538.056	519.789	478.792	423.300	375.332	354.653	334.893	321.810	322.960
148.5	538.170	520.594	479.832	425.990	378.325	357.612	338.215	325.163	326.314
149.0	539.169	522.089	481.529	428.352	381.646	360.605	341.469	328.450	329.733
149.5	539.678	521.579	482.568	430.089	384.605	363.926	344.756	331.639	333.021
150.0	539.986	523.008	484.266	432.813	387.564	367.214	348.044	334.927	336.638
150.5	541.053	523.812	486.325	434.880	390.523	370.206	351.332	338.543	339.926
151.0	541.099	524.617	486.741	437.275	393.516	373.165	354.324	341.798	343.509
151.5	542.199	524.798	488.767	439.308	396.508	376.453	357.612	345.119	346.830
152.0	542.279	525.307	489.511	441.703	399.501	379.445	360.900	348.373	350.413
152.5	541.996	526.112	490.913	443.441	402.460	382.404	364.221	351.661	353.734
153.0	542.076	526.259	492.315	445.836	405.123	385.397	367.147	354.620	357.022
153.5	543.143	527.097	493.355	447.902	406.801	388.356	370.468	358.236	360.310
154.0	542.565	527.606	494.099	450.298	410.089	391.677	373.427	361.490	363.960
154.5	543.303	527.787	494.777	452.035	412.390	394.307	376.715	364.778	367.281
155.0	544.007	528.263	496.111	453.773	414.396	397.333	379.707	367.737	370.535
155.5	543.791	528.148	497.050	455.873	416.731	400.259	382.995	371.025	373.856
156.0	542.851	528.658	497.661	457.577	419.690	403.285	385.987	374.312	377.111
156.5	543.589	529.201	498.338	459.677	422.025	404.929	388.946	377.567	380.069
157.0	543.931	529.019	499.344	461.448	424.689	407.921	391.905	380.526	383.391
157.5	542.420	529.234	500.021	462.823	426.990	410.552	395.227	383.813	386.678
158.0	542.520	528.461	500.799	464.561	429.325	413.182	398.186	387.101	389.966
158.5	541.640	528.676	501.248	466.004	431.955	415.188	400.816	390.060	392.925
159.0	540.734	528.890	502.026	467.741	434.290	417.818	402.788	393.019	396.213
159.5	541.605	529.071	502.476	469.512	436.263	420.777	406.767	396.307	399.172
160.0	540.531	528.889	502.958	470.921	438.927	423.112	408.411	399.266	402.460
160.5	539.759	528.674	503.770	472.035	440.933	425.776	411.404	402.225	405.452
161.0	540.034	528.720	504.253	473.477	442.577	428.077	413.705	404.526	408.706
161.5	539.396	527.519	505.031	474.886	445.207	430.707	415.711	407.485	411.336
162.0	538.960	527.008	504.232	476.329	446.851	433.042	418.670	410.444	412.584
162.5	537.724	526.203	505.372	476.785	449.515	435.706	420.972	412.745	415.476
163.0	537.375	526.746	505.231	478.556	451.192	438.336	424.293	415.047	418.006
163.5	536.764	525.678	505.419	479.308	453.493	440.343	426.594	418.006	420.931
164.0	536.944	525.664	505.902	480.421	455.137	442.315	428.896	420.636	423.528
164.5	535.877	524.631	505.760	481.173	457.144	444.617	431.888	423.628	427.077
165.0	534.843	524.583	505.948	482.286	459.116	447.247	434.518	425.930	429.707
165.5	533.152	522.892	505.840	483.366	461.122	448.924	436.491	428.231	432.009
166.0	533.138	522.254	505.666	484.480	462.766	450.897	438.826	431.190	435.229
166.5	532.400	521.583	505.887	485.594	464.081	453.232	441.423	433.820	438.188

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	531.594	520.912	505.450	485.426	465.759	454.876	444.086	436.155	440.818
167.5	530.165	519.650	505.343	486.244	467.107	456.848	445.730	439.148	443.120
168.0	527.883	518.683	505.235	487.063	468.751	458.855	448.394	441.778	445.784
168.5	527.540	517.911	505.128	487.915	470.395	460.827	451.058	444.442	448.380
169.0	525.554	516.777	504.362	487.418	472.073	462.800	452.668	446.414	450.648
169.5	524.554	515.549	504.255	488.532	473.025	464.115	455.298	449.373	452.587
170.0	523.554	514.287	503.818	488.726	474.012	466.121	457.304	451.346	455.217
170.5	522.587	513.716	502.758	489.250	475.032	467.765	458.982	453.681	457.552
171.0	520.567	512.521	503.013	489.478	475.689	469.409	460.659	455.982	459.558
171.5	518.976	511.327	501.590	489.706	477.367	470.429	462.666	458.351	462.189
172.0	518.111	509.837	501.550	490.229	478.715	472.073	464.638	459.666	464.094
172.5	516.554	508.381	500.489	490.128	479.668	473.716	466.611	462.296	466.691
173.0	514.373	507.186	499.496	490.061	480.359	475.360	468.583	464.269	467.972
173.5	513.212	505.696	499.194	490.652	480.983	476.018	470.227	465.913	470.307
174.0	511.983	504.535	497.872	490.585	481.312	477.662	471.542	467.919	472.575
174.5	510.064	502.421	496.946	490.517	482.332	479.306	473.153	469.892	473.561
175.0	508.145	500.965	496.020	489.826	483.318	480.292	474.468	471.502	475.501
175.5	506.259	499.576	495.127	490.484	483.942	480.916	476.145	473.179	476.816
176.0	505.756	498.220	494.268	490.450	484.633	482.265	477.756	474.857	479.479
176.5	503.018	496.274	493.443	490.155	484.928	482.922	479.762	476.534	480.499
177.0	501.595	495.053	492.027	490.155	484.995	483.908	480.090	478.145	482.143
177.5	499.481	493.208	491.631	489.498	485.619	484.237	481.734	479.460	483.096
178.0	497.502	492.087	490.940	489.498	485.948	485.223	482.687	481.466	485.760
178.5	495.395	490.047	489.954	489.169	485.948	486.210	483.673	482.747	487.370
179.0	493.979	489.356	488.639	489.169	486.277	486.539	485.351	484.062	488.027
179.5	492.630	488.075	487.981	488.511	486.277	487.196	486.008	485.082	490.691
180.0	487.518	487.518	487.518	487.518	487.518	487.518	487.518	487.518	487.518

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	181.00	N.A.	5.50
0-30	384.50	N.A.	11.70
0-40	630.71	N.A.	19.20
0-60	1142.37	N.A.	34.70
0-80	1529.97	N.A.	46.50
0-90	1651.72	N.A.	50.20
10-90	1604.96	N.A.	48.80
20-40	449.71	N.A.	13.70
20-50	710.78	N.A.	21.60
40-70	729.50	N.A.	22.20
60-80	387.60	N.A.	11.80
70-80	169.75	N.A.	5.20
80-90	121.75	N.A.	3.70
90-110	290.41	N.A.	8.80
90-120	506.72	N.A.	15.40
90-130	755.54	N.A.	23.00
90-150	1258.61	N.A.	38.20
90-180	1638.83	N.A.	49.80
110-180	1348.42	N.A.	41.00
0-180	3290.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.76
10-20	134.24
20-30	203.49
30-40	246.22
40-50	261.07
50-60	250.58
60-70	217.85
70-80	169.75
80-90	121.75
90-100	121.58
100-110	168.84
110-120	216.31
120-130	248.81
130-140	259.07
140-150	244.00
150-160	201.32
160-170	132.67
170-180	46.23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-940U-L19-940D-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-3-00-L19-940U-L19-940D-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	19.8	20.7	22.0	UGR Viewed Endwise			
	3H	21.9	22.7	22.9	23.7	25.0	12.9	13.8	13.8	14.8
	4H	23.5	24.3	24.5	25.3	26.5	14.2	15.1	15.2	16.0
	6H	25.2	25.9	26.1	26.9	28.2	14.7	15.4	15.6	16.4
	8H	26.0	26.7	27.0	27.8	29.1	14.9	15.6	15.9	16.6
	12H	27.0	27.7	28.0	28.7	30.0	15.0	15.6	15.9	16.7

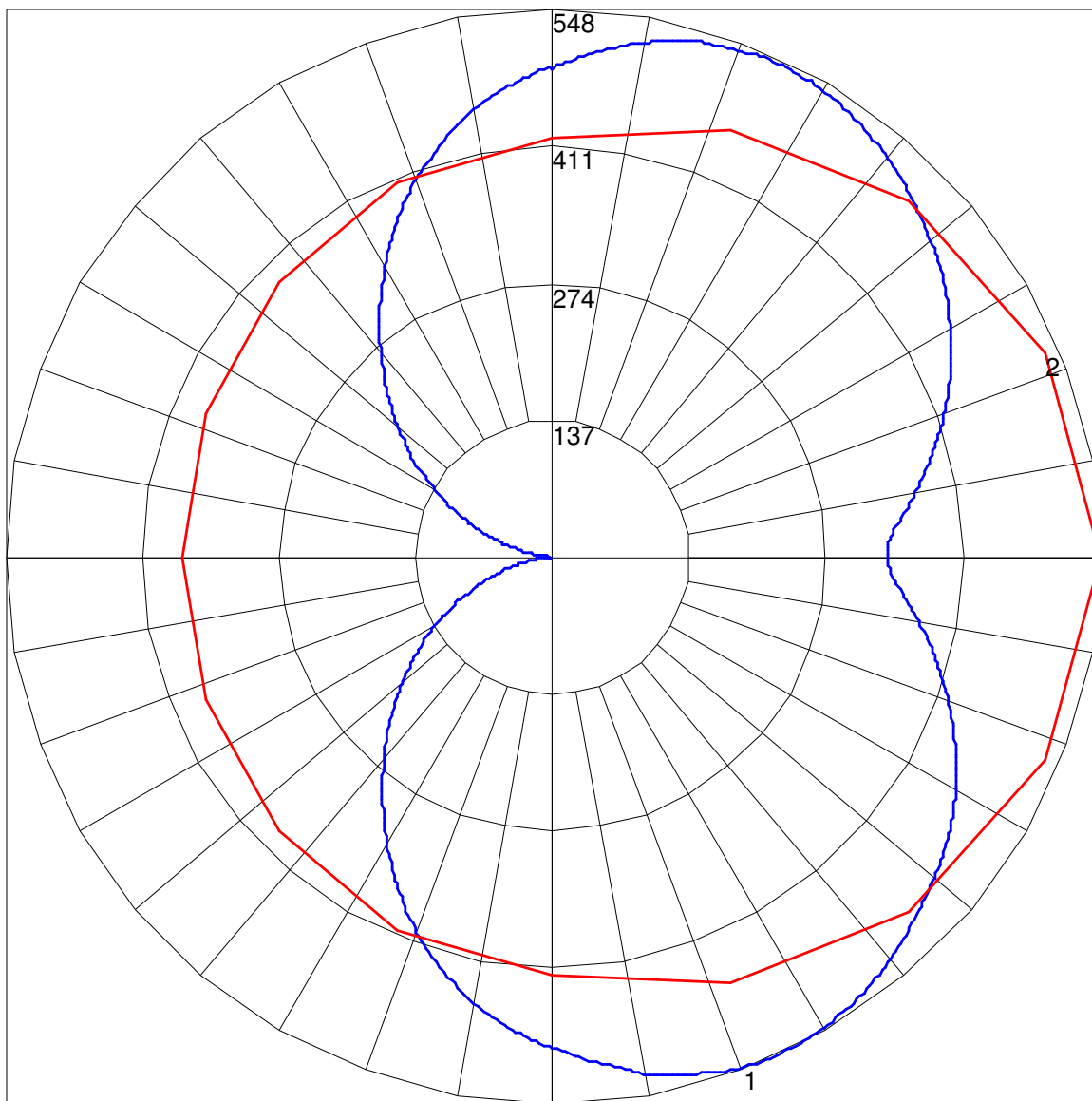
4H	2H	19.1	19.9	20.1	20.9	22.2	12.9	13.8	13.8	14.8
	3H	22.4	23.1	23.4	24.1	25.4	14.2	15.1	15.2	16.0
	4H	24.2	24.8	25.2	25.8	27.1	14.7	15.4	15.6	16.4
	6H	26.1	26.6	27.1	27.6	28.9	14.9	15.6	15.9	16.6
	8H	27.0	27.5	28.1	28.6	29.9	15.0	15.6	15.9	16.7
	12H	28.1	28.6	29.2	29.6	31.0	15.0	15.6	16.0	16.6

8H	4H	24.3	24.8	25.3	25.8	27.2	15.0	15.6	15.9	16.7
	6H	26.4	26.8	27.4	27.8	29.2	15.6	16.0	16.4	17.3
	8H	27.5	27.9	28.5	28.9	30.3	15.9	16.6	16.9	17.9
	12H	28.8	29.1	29.8	30.2	31.6	16.7	17.2	17.7	18.3

12H	4H	24.3	24.7	25.3	25.8	27.1	16.8	17.3	17.8	18.3
	6H	26.4	26.7	27.4	27.8	29.2	17.3	17.9	18.4	18.9
	8H	27.6	27.9	28.6	28.9	30.3	18.4	18.7	19.4	19.8

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 547.877 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.)