

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-840U-L19-840D-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-3-00-L19-840U-L19-840D-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	3941
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	10850	10220	9743
55	10786	9766	8897
65	10805	9412	7893
75	10992	9179	6419
85	11555	9359	4253

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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	589.803	589.803	589.803	589.803	589.803	589.803	589.803	589.803	589.803
0.5	590.632	591.616	590.520	592.766	588.746	591.805	587.832	587.801	587.857
1.0	592.240	593.019	592.688	593.247	588.383	590.922	586.145	586.114	586.209
1.5	594.368	594.903	593.326	594.532	588.383	589.274	585.262	584.064	583.395
2.0	596.173	597.228	594.768	594.650	587.942	588.029	583.654	582.417	581.748
2.5	598.782	598.828	596.691	595.170	587.540	587.225	582.046	581.211	580.179
3.0	600.509	601.232	598.213	595.288	587.138	586.421	580.840	578.799	578.129
3.5	602.794	603.352	599.332	596.652	587.138	584.773	578.830	577.151	576.923
4.0	605.806	605.472	601.255	596.770	586.294	583.165	578.026	575.141	574.109
4.5	607.169	607.229	602.776	596.526	585.892	582.763	576.015	573.131	571.657
5.0	607.926	609.428	604.092	597.850	585.088	580.753	573.603	571.081	569.284
5.5	610.732	611.225	604.525	598.007	583.882	578.743	572.397	569.071	568.078
6.0	612.615	612.659	605.683	597.763	583.039	578.301	570.789	567.423	565.627
6.5	614.137	615.378	606.881	597.558	582.274	576.732	568.700	564.570	563.254
7.0	615.658	617.096	607.677	597.636	581.833	575.448	566.690	562.118	560.400
7.5	617.210	618.530	608.512	597.471	579.783	573.437	564.278	560.108	557.586
8.0	620.196	619.562	609.544	596.422	578.577	571.427	562.267	557.656	554.772
8.5	622.843	621.075	610.576	597.021	578.175	570.221	560.218	555.244	551.997
9.0	626.459	622.667	611.490	596.374	576.165	568.172	557.766	551.988	549.182
9.5	628.248	624.053	612.042	596.571	574.919	565.759	555.354	549.537	548.378
10.0	630.241	626.204	612.553	596.003	573.713	564.112	553.344	547.125	543.956
10.5	632.195	627.473	613.467	595.396	571.703	562.141	550.892	544.271	541.985
11.0	633.385	628.378	614.019	594.426	570.859	560.091	548.038	542.261	539.171
11.5	634.456	629.804	614.168	593.457	568.447	557.679	545.666	539.005	535.552
12.0	635.126	630.828	614.719	593.291	566.839	556.434	543.214	536.191	532.376
12.5	637.443	632.656	614.908	592.321	565.593	553.178	540.400	533.376	529.561
13.0	638.750	633.640	615.175	591.351	563.985	551.168	537.546	530.121	525.620
13.5	639.774	634.948	615.443	590.783	561.171	548.756	535.095	526.865	523.286
14.0	641.720	635.775	615.749	589.853	559.926	545.500	531.476	523.649	519.786
14.5	643.067	636.641	615.173	588.441	557.915	543.490	528.623	520.433	516.207
15.0	643.090	637.066	615.362	587.511	555.062	541.038	525.808	517.216	512.628
15.5	643.925	637.530	615.306	585.698	552.650	538.586	522.553	513.598	510.618
16.0	644.280	638.396	614.848	584.208	550.600	535.772	520.101	510.382	505.754
16.5	646.012	639.263	615.596	583.679	548.590	532.958	516.885	507.567	503.342
17.0	647.911	638.923	615.540	581.866	546.580	529.702	514.031	503.910	500.969
17.5	648.209	640.230	615.043	579.611	543.726	527.653	510.373	501.458	496.909
18.0	649.351	639.891	614.545	578.681	540.912	523.593	506.755	497.840	494.095
18.5	650.895	640.394	613.930	576.946	538.058	521.181	505.107	495.829	490.437
19.0	650.507	640.898	613.795	575.692	535.646	517.925	501.891	492.211	486.819
19.5	652.327	640.960	612.778	574.076	532.792	515.473	498.233	488.593	482.759
20.0	653.224	640.699	612.643	571.939	530.380	512.257	496.625	484.974	479.141
20.5	653.483	641.203	611.263	570.205	527.928	509.001	492.968	481.317	475.081
21.0	653.703	640.902	610.726	567.824	524.310	505.785	489.349	477.698	471.463
21.5	654.364	641.082	609.748	566.609	521.858	504.138	486.133	473.678	467.442
22.0	655.222	640.940	608.809	565.032	518.642	500.117	482.475	470.060	463.382
22.5	655.718	640.797	607.831	562.974	515.386	497.224	478.817	466.441	459.764
23.0	655.370	641.016	606.892	560.877	512.533	493.204	475.199	462.421	455.704
23.5	655.463	640.589	606.316	557.976	508.914	491.596	471.541	458.400	451.684
24.0	655.919	640.525	604.976	556.438	506.502	488.340	467.884	454.743	447.262
24.5	656.178	640.382	604.037	554.096	502.844	484.722	464.265	450.762	443.643
25.0	655.633	640.279	602.294	552.401	501.638	481.024	460.608	446.702	439.583
25.5	654.686	639.371	601.355	550.343	498.785	477.406	456.989	442.682	435.161
26.0	654.945	639.149	600.014	547.079	495.970	473.748	452.929	439.063	431.503
26.5	654.439	638.124	598.713	544.580	492.313	470.130	449.272	435.043	427.041

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CANDELA TABULATION - (Cont.)

27.0	653.532	637.500	597.853	542.522	488.655	466.433	445.251	431.022	423.021
27.5	653.507	637.278	595.424	540.465	485.399	462.815	441.594	426.963	418.961
28.0	653.766	636.252	593.839	536.759	481.781	458.755	437.936	422.942	414.539
28.5	652.701	635.227	592.616	535.064	478.565	455.137	433.916	418.922	410.479
29.0	651.832	635.005	591.394	531.800	474.544	451.479	429.895	414.500	406.459
29.5	651.650	633.175	589.848	528.457	470.887	447.458	425.835	410.479	402.237
30.0	651.341	632.070	588.223	526.360	467.229	443.359	422.217	406.419	398.058
30.5	650.316	631.163	586.598	523.498	463.610	439.741	418.157	402.359	394.037
31.0	650.173	630.539	585.013	520.557	459.992	435.681	414.137	398.298	389.856
31.5	649.304	629.837	582.584	519.264	456.334	431.661	410.116	394.318	385.716
32.0	647.955	628.811	581.401	515.922	452.314	428.003	406.057	390.176	381.735
32.5	648.214	627.383	579.335	514.226	448.656	423.943	401.996	386.156	377.515
33.0	646.022	626.799	577.631	511.365	445.038	419.923	397.936	381.935	373.294
33.5	646.399	624.929	575.526	508.061	440.978	415.863	393.915	377.875	369.233
34.0	645.854	623.541	573.018	505.160	436.958	411.843	389.855	373.894	365.013
34.5	644.584	622.113	570.511	501.817	432.898	408.185	385.795	369.754	360.912
35.0	643.077	620.685	568.847	498.514	428.878	404.044	381.815	365.693	356.932
35.5	642.130	619.699	567.104	495.613	425.259	399.984	377.834	361.592	352.751
36.0	640.615	617.467	564.675	492.309	421.239	395.924	373.774	357.572	348.570
36.5	639.747	616.039	562.971	489.006	416.816	391.864	369.553	353.632	344.429
37.0	638.359	615.053	560.023	485.663	412.757	387.924	365.613	349.492	340.248
37.5	637.128	612.860	557.476	482.360	408.736	383.744	361.593	345.310	336.309
38.0	636.622	611.030	555.851	479.056	404.716	379.683	357.492	341.370	332.048
38.5	634.106	609.642	552.539	475.753	400.616	375.542	353.472	337.270	327.827
39.0	632.875	608.655	550.394	472.048	396.435	371.563	349.371	333.250	323.726
39.5	631.124	606.424	550.701	468.705	392.374	367.502	345.431	329.149	319.665
40.0	630.658	605.035	548.233	465.402	388.193	363.321	341.452	325.130	315.725
40.5	628.221	603.568	545.765	461.696	384.013	359.261	337.311	321.109	311.665
41.0	626.391	601.454	543.218	458.354	379.952	355.201	333.290	317.049	307.525
41.5	624.356	599.624	540.750	454.727	375.690	350.980	329.189	313.109	303.544
42.0	623.850	598.157	537.801	451.463	371.549	347.120	325.170	309.009	299.565
42.5	622.178	596.367	535.293	448.199	367.368	343.020	321.109	304.908	295.624
43.0	620.104	593.331	532.707	445.014	363.188	338.879	317.089	301.048	291.445
43.5	619.117	591.903	530.239	441.387	358.806	334.738	312.948	296.908	287.544
44.0	617.003	590.073	527.369	437.761	354.705	330.678	308.807	292.848	283.725
44.5	615.331	588.282	524.380	434.095	350.443	326.657	304.747	288.868	279.745
45.0	614.100	586.855	521.912	430.791	346.262	322.397	300.727	284.768	275.846
45.5	611.466	584.260	519.003	427.166	342.082	318.295	296.546	280.828	271.746
46.0	611.284	582.470	516.093	423.582	337.820	314.154	292.525	276.847	267.806
46.5	608.847	581.444	513.586	419.956	333.598	310.054	288.384	272.788	264.027
47.0	607.939	580.820	510.676	416.250	329.216	305.953	284.324	268.887	260.208
47.5	606.590	579.148	507.727	412.744	324.874	301.772	280.264	264.867	256.147
48.0	604.957	576.798	504.936	409.238	320.573	297.471	276.283	261.048	252.207
48.5	602.323	574.684	501.908	405.692	316.351	293.290	272.143	257.069	248.308
49.0	600.690	572.452	499.038	402.025	312.131	289.149	268.082	253.209	244.327
49.5	599.097	570.220	496.089	398.359	307.869	285.088	264.102	249.310	240.548
50.0	599.316	568.469	493.140	394.774	303.567	280.948	260.123	245.410	236.568
50.5	596.438	566.237	490.270	391.069	299.306	276.687	256.022	241.711	232.709
51.0	595.893	564.084	487.399	387.484	295.084	272.586	252.042	237.772	228.810
51.5	593.897	561.891	484.048	383.778	290.863	268.364	247.981	233.872	225.031
52.0	591.902	559.257	481.060	379.913	286.561	264.304	244.081	230.053	221.333
52.5	590.190	557.065	478.190	376.288	282.340	260.204	240.102	226.234	217.473
53.0	588.076	554.794	474.878	372.502	278.078	256.023	236.082	222.415	213.573
53.5	585.962	552.641	471.889	368.757	273.937	251.801	232.061	218.636	209.674
54.0	584.006	550.369	468.779	364.931	269.636	247.741	228.081	214.736	206.216
54.5	581.892	547.893	465.548	361.065	265.495	243.720	224.142	210.998	202.398

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CANDELA TABULATION - (Cont.)

55.0	579.857	545.622	462.479	357.321	261.274	239.540	220.162	207.138	198.538
55.5	577.783	542.988	459.448	353.414	257.092	235.319	216.222	203.319	194.839
56.0	575.748	540.795	456.298	349.629	252.831	231.258	212.322	199.660	190.940
56.5	573.792	538.161	453.026	345.683	248.609	227.118	208.262	195.720	187.362
57.0	571.717	536.008	449.797	341.776	244.348	223.056	204.482	192.103	183.823
57.5	569.241	533.413	446.684	337.871	240.166	218.837	200.623	188.203	179.924
58.0	567.048	530.740	443.494	333.844	235.825	214.735	196.643	184.544	176.185
58.5	565.092	528.146	440.225	329.938	231.563	210.674	192.824	180.805	172.406
59.0	563.018	525.630	436.834	325.911	227.221	206.574	189.005	177.026	168.828
59.5	560.581	522.917	433.682	321.885	222.839	202.433	185.225	173.368	165.169
60.0	557.947	520.283	430.291	317.979	218.537	198.253	181.446	169.669	161.471
60.5	555.549	517.689	427.141	314.074	214.275	194.152	177.587	166.010	157.772
61.0	553.475	515.053	423.871	310.248	210.054	190.011	173.728	162.312	154.113
61.5	550.959	512.419	420.600	306.302	205.752	185.991	169.868	158.613	150.415
62.0	548.041	509.624	417.169	302.275	201.530	181.851	166.170	154.915	146.877
62.5	545.564	506.868	413.937	298.329	197.188	177.790	162.310	151.176	143.138
63.0	543.088	504.232	410.708	294.383	193.007	173.609	158.451	147.517	139.560
63.5	540.612	501.317	407.437	290.437	188.745	169.468	154.671	143.898	135.861
64.0	538.174	498.482	404.006	286.491	184.483	165.528	150.852	140.159	132.404
64.5	535.296	495.687	400.776	282.545	180.263	161.427	146.952	136.501	129.066
65.0	532.539	492.893	397.225	278.439	176.001	157.407	143.052	132.882	125.327
65.5	529.743	489.937	393.954	274.372	171.699	153.306	139.313	129.224	121.789
66.0	527.026	486.900	390.643	270.427	167.517	149.206	135.414	125.646	118.332
66.5	524.467	483.986	387.133	266.441	163.337	145.105	131.675	121.947	114.874
67.0	521.589	481.070	383.862	262.455	159.155	141.085	128.016	118.409	111.538
67.5	518.792	478.153	380.350	258.349	154.973	137.145	124.277	114.831	108.040
68.0	516.034	475.119	376.920	254.283	150.592	133.245	120.499	111.293	104.462
68.5	513.115	472.082	373.530	250.257	146.370	129.144	116.720	107.755	100.924
69.0	510.560	469.087	369.978	246.312	142.229	125.245	112.981	104.217	97.667
69.5	507.681	466.172	366.667	242.407	138.088	121.224	109.442	100.760	94.290
70.0	504.963	463.134	363.117	238.501	133.907	117.324	105.784	97.302	90.912
70.5	502.164	460.059	359.685	234.555	129.767	113.345	102.166	93.764	87.415
71.0	499.446	457.022	356.214	230.491	125.585	109.485	98.548	90.427	84.038
71.5	496.687	453.985	352.584	226.587	121.645	105.626	95.010	87.090	80.701
72.0	493.692	450.751	349.193	222.802	117.543	101.766	91.472	83.753	77.645
72.5	490.852	447.794	345.722	218.937	113.162	97.947	87.974	80.537	74.228
73.0	487.896	444.678	342.332	215.192	109.221	94.208	84.557	77.160	71.011
73.5	485.017	441.482	338.903	211.327	105.161	90.590	81.099	73.863	67.715
74.0	482.178	438.406	335.353	207.463	101.180	86.931	77.682	70.726	64.579
74.5	479.102	435.172	331.921	203.640	97.321	83.313	74.345	67.550	61.645
75.0	476.183	432.096	328.333	199.934	93.421	79.694	71.048	64.415	58.468
75.5	473.186	428.900	324.904	196.072	89.601	76.156	67.751	61.199	55.452
76.0	470.149	425.825	321.635	192.288	85.781	72.699	64.414	58.184	52.517
76.5	467.108	422.589	318.126	188.703	81.962	69.282	61.118	55.048	49.624
77.0	464.031	419.555	314.697	184.880	78.262	65.864	58.061	52.113	46.929
77.5	460.953	416.361	311.269	181.335	74.483	62.487	54.886	49.138	44.115
78.0	457.957	413.286	307.960	177.713	70.945	59.110	51.790	46.283	41.381
78.5	454.718	410.094	304.690	174.289	67.367	55.813	48.735	43.468	38.647
79.0	451.682	406.820	301.343	170.667	63.909	52.637	45.720	40.654	35.873
79.5	448.604	403.746	298.074	167.165	60.411	49.501	42.784	37.840	33.340
80.0	445.449	400.632	294.767	163.704	56.953	46.445	39.930	35.186	30.767
80.5	442.293	397.480	291.459	160.442	53.616	43.390	37.115	32.533	28.275
81.0	439.336	394.447	288.392	157.180	50.399	40.414	34.381	29.960	25.701
81.5	436.299	391.173	285.206	153.919	47.263	37.559	31.687	27.427	23.209
82.0	433.223	388.140	282.139	150.659	44.167	34.745	28.994	24.934	20.878
82.5	430.465	385.389	279.113	147.518	41.071	32.051	26.501	22.642	18.665

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CANDELA TABULATION - (Cont.)

83.0	427.471	382.436	276.008	144.577	38.096	29.317	24.008	20.310	16.374
83.5	424.637	379.443	272.983	141.677	35.242	26.663	21.636	18.018	14.163
84.0	421.882	376.611	270.118	138.779	32.468	24.130	19.304	15.807	11.991
84.5	419.046	373.700	267.214	135.880	29.734	21.678	16.932	13.596	9.982
85.0	416.371	370.748	264.351	133.142	27.080	19.306	14.681	11.546	8.172
85.5	413.735	368.037	261.366	130.404	24.467	16.934	12.509	9.576	6.564
86.0	411.102	365.443	258.502	127.787	21.934	14.642	10.418	7.807	5.398
86.5	408.664	363.085	255.918	125.169	19.482	12.430	8.408	6.439	4.593
87.0	406.423	361.439	253.371	122.752	17.150	10.259	6.639	5.353	4.070
87.5	404.812	360.188	251.457	120.255	14.818	8.168	5.392	4.669	3.748
88.0	404.032	359.607	250.093	117.798	12.446	6.117	4.507	4.187	3.585
88.5	403.445	359.182	249.240	115.655	10.074	4.429	4.024	3.825	3.385
89.0	403.097	359.076	249.022	114.182	7.661	3.625	3.743	3.703	3.344
89.5	403.026	359.009	248.843	113.695	5.609	3.342	3.622	3.583	3.304
90.0	403.073	358.981	248.864	113.723	4.798	3.262	3.581	3.582	3.343
90.5	402.763	359.075	248.887	113.951	5.699	3.261	3.580	3.581	3.302
91.0	402.931	359.369	249.188	115.022	7.667	3.300	3.540	3.620	3.302
91.5	403.020	359.903	249.850	116.897	10.030	3.930	3.579	3.580	3.262
92.0	403.510	360.758	251.355	119.135	12.314	5.071	3.698	3.540	3.341
92.5	404.039	362.213	253.421	121.373	14.518	6.921	4.012	3.658	3.419
93.0	405.131	364.033	255.888	123.968	16.722	9.087	4.799	3.816	3.695
93.5	406.544	366.331	258.516	126.285	19.006	11.253	6.138	4.248	4.325
94.0	408.639	368.950	261.220	128.918	21.408	13.458	7.949	5.114	5.546
94.5	411.175	371.610	263.765	131.512	23.849	15.583	10.036	6.493	7.239
95.0	413.831	374.467	266.748	134.104	26.369	17.907	12.162	8.146	9.128
95.5	416.487	377.365	269.611	136.816	28.968	20.270	14.367	10.154	11.295
96.0	419.263	380.062	272.433	139.606	31.646	22.632	16.730	12.321	13.421
96.5	421.958	382.839	275.335	142.516	34.401	25.112	19.054	14.486	15.705
97.0	424.693	385.656	278.237	145.464	37.236	27.593	21.455	16.770	18.028
97.5	427.508	388.550	281.179	148.411	40.190	30.231	23.897	19.172	20.312
98.0	430.240	391.445	284.122	151.556	43.103	32.909	26.338	21.496	22.634
98.5	433.132	394.419	287.222	154.740	46.215	35.665	28.897	23.936	25.155
99.0	435.984	397.432	290.322	157.884	49.444	38.619	31.536	26.417	27.675
99.5	438.837	400.366	293.461	161.186	52.672	41.532	34.252	29.017	30.314
100.0	441.689	403.379	296.679	164.527	55.979	44.604	36.969	31.615	32.834
100.5	444.541	406.430	299.856	167.868	59.366	47.675	39.804	34.214	35.511
101.0	447.551	409.403	303.113	171.327	62.832	50.746	42.758	36.892	38.149
101.5	450.324	412.373	306.329	174.747	66.335	54.055	45.672	39.609	40.945
102.0	453.333	415.467	309.703	178.246	69.919	57.125	48.704	42.404	43.820
102.5	456.223	418.438	312.958	181.704	73.502	60.591	51.736	45.279	46.655
103.0	459.195	421.489	316.252	185.203	77.243	64.686	54.847	48.153	49.569
103.5	462.164	424.501	319.586	188.780	81.024	68.072	57.997	51.107	52.444
104.0	465.137	427.512	322.960	192.436	84.725	70.946	61.147	54.100	55.515
104.5	468.025	430.682	326.292	196.012	88.505	74.569	64.454	57.171	58.586
105.0	471.075	433.654	329.586	199.589	92.443	78.034	67.723	60.282	61.697
105.5	473.688	436.705	332.998	203.245	96.342	81.696	71.030	63.393	64.808
106.0	476.696	439.755	336.292	206.940	100.279	85.791	74.417	66.543	67.998
106.5	479.508	442.687	339.585	210.675	104.335	90.044	77.843	69.733	71.148
107.0	482.438	445.698	342.918	214.291	108.312	93.155	81.230	73.001	74.574
107.5	485.368	448.748	346.212	218.026	112.368	96.502	84.773	76.230	77.764
108.0	488.179	451.719	349.625	221.839	116.424	100.282	88.238	79.695	81.111
108.5	490.950	454.690	352.997	225.652	120.559	104.142	91.743	83.002	84.419
109.0	493.919	457.543	356.331	229.426	124.654	107.960	95.366	86.468	87.805
109.5	496.651	460.715	359.663	233.160	128.749	111.820	98.950	89.815	91.152
110.0	499.501	463.487	362.918	237.053	132.923	115.718	102.494	93.280	94.658
110.5	502.273	466.460	366.053	240.865	137.097	119.616	106.156	96.745	98.083

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CANDELA TABULATION - (Cont.)

111.0	505.084	469.234	369.346	244.679	141.310	123.555	109.818	100.251	101.588
111.5	507.818	472.126	372.681	248.572	145.524	127.493	113.440	103.795	104.935
112.0	510.432	475.020	375.933	252.424	149.737	131.470	117.181	107.338	108.320
112.5	513.243	477.874	379.267	256.355	154.069	135.525	120.961	110.843	111.786
113.0	515.776	480.728	382.561	260.207	158.243	139.581	124.662	114.347	115.330
113.5	518.548	483.542	385.814	264.218	162.456	143.677	128.482	117.970	118.953
114.0	521.200	486.236	389.067	268.070	166.788	147.693	132.381	121.553	122.497
114.5	523.813	489.010	392.321	271.962	170.961	151.828	137.027	125.256	126.041
115.0	526.269	491.826	395.575	275.893	175.215	155.924	141.988	128.918	129.664
115.5	528.766	494.600	398.789	279.785	179.507	160.098	145.532	132.501	133.169
116.0	531.458	497.176	402.084	283.677	183.799	164.193	147.974	136.163	136.988
116.5	533.876	499.952	405.178	287.569	188.012	168.288	151.360	139.825	140.571
117.0	536.567	502.727	408.512	291.500	192.305	172.541	155.850	143.565	144.313
117.5	538.945	505.263	411.646	295.352	196.676	176.597	160.890	147.149	147.856
118.0	541.323	507.997	414.821	299.284	200.850	180.850	164.906	150.930	151.558
118.5	543.580	510.536	418.154	303.136	205.181	185.025	167.664	154.512	155.220
119.0	545.998	512.995	421.250	307.068	209.474	189.120	170.735	158.372	159.001
119.5	548.417	515.847	424.424	310.920	213.766	193.175	174.515	162.073	162.544
120.0	550.714	518.426	427.559	314.733	218.138	197.310	178.374	165.853	166.483
120.5	553.052	520.924	430.694	318.467	222.390	201.524	182.272	169.595	170.105
121.0	555.390	523.383	433.870	322.358	226.525	205.619	186.131	173.414	173.807
121.5	557.768	525.962	436.926	326.131	230.856	209.675	189.990	177.943	177.509
122.0	559.712	528.460	440.062	330.024	235.148	213.771	194.007	183.102	181.289
122.5	562.130	530.485	443.079	333.797	239.361	217.827	197.866	187.511	185.108
123.0	564.508	533.064	446.174	337.570	243.615	222.001	201.805	190.426	188.888
123.5	566.886	535.482	449.311	341.304	247.907	226.057	205.742	193.930	192.787
124.0	568.870	537.627	452.446	345.038	252.081	230.192	209.720	198.499	198.025
124.5	571.248	540.085	455.461	348.851	256.374	234.366	213.658	202.358	204.838
125.0	573.312	542.624	458.598	352.624	260.548	238.343	217.674	204.956	209.207
125.5	575.256	544.729	461.693	356.398	264.840	242.478	221.613	207.714	211.256
126.0	577.594	547.227	464.593	360.013	269.013	246.573	225.590	211.375	211.965
126.5	579.538	549.412	467.686	363.708	273.187	250.590	229.488	215.156	215.272
127.0	581.603	551.911	470.980	367.403	277.441	254.764	233.426	218.976	219.052
127.5	583.627	554.016	473.801	370.979	281.654	258.820	237.403	222.756	222.873
128.0	585.571	556.161	476.540	374.713	285.789	262.994	241.421	226.576	226.771
128.5	587.596	558.659	479.795	378.407	290.081	267.169	245.239	230.435	230.590
129.0	589.620	560.804	482.615	382.023	294.334	271.224	249.375	234.372	234.489
129.5	589.595	562.909	485.435	385.679	298.547	275.319	253.430	238.193	238.387
130.0	591.660	565.014	488.689	389.334	302.721	279.415	257.447	242.012	242.286
130.5	592.897	567.119	491.469	393.029	306.896	283.589	261.464	245.832	246.224
131.0	594.841	568.790	494.289	396.605	311.149	287.684	265.361	249.691	250.083
131.5	595.330	570.621	497.110	400.221	315.441	291.740	269.339	253.629	253.982
132.0	598.415	572.332	499.930	403.797	319.654	295.796	273.434	257.527	257.998
132.5	600.480	574.003	502.750	407.374	323.947	299.931	277.411	261.425	261.895
133.0	601.363	575.441	505.570	410.872	328.199	303.987	281.546	265.246	265.795
133.5	603.307	576.758	508.390	414.487	332.335	308.122	285.523	269.656	269.694
134.0	606.119	579.297	511.170	418.143	336.509	312.257	289.619	273.515	273.711
134.5	606.962	581.008	513.597	421.719	340.722	316.273	293.675	277.453	277.569
135.0	608.946	583.547	516.417	425.375	344.935	320.487	297.651	281.430	281.705
135.5	611.405	584.824	519.237	428.557	349.149	324.621	301.748	285.447	285.524
136.0	612.208	586.575	521.937	432.213	353.323	328.756	305.725	289.266	289.541
136.5	614.979	588.326	524.444	435.749	357.458	332.733	309.741	293.244	293.359
137.0	615.035	590.391	526.830	439.365	361.672	336.906	313.797	297.143	297.535
137.5	617.332	592.536	529.690	442.627	365.768	341.083	317.695	301.040	301.473
138.0	618.176	593.853	531.208	446.123	369.900	345.097	321.669	304.937	305.167
138.5	620.594	596.392	533.281	449.345	373.877	349.152	325.727	309.073	309.384

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CANDELA TABULATION - (Cont.)

139.0	621.951	597.356	536.102	452.921	377.973	353.090	329.704	312.971	313.401
139.5	623.067	599.027	538.094	456.063	382.109	357.225	333.682	316.949	317.379
140.0	624.304	600.818	540.561	459.245	386.165	361.163	337.541	320.848	321.318
140.5	626.369	602.610	541.806	462.780	390.260	365.259	341.637	324.943	325.571
141.0	627.566	604.321	543.838	465.922	394.435	369.237	345.692	329.117	329.745
141.5	629.196	604.931	546.659	469.458	398.570	373.253	349.669	333.213	333.801
142.0	630.120	607.116	548.651	472.640	402.507	377.270	353.646	337.308	337.896
142.5	631.357	608.827	551.118	475.781	406.445	381.207	357.583	341.206	341.991
143.0	633.301	610.104	553.110	479.004	410.383	385.224	361.521	345.144	346.047
143.5	634.971	611.068	555.143	482.226	414.714	389.319	365.616	349.317	350.143
144.0	634.240	612.466	557.569	485.448	418.692	393.335	369.553	353.412	354.237
144.5	636.385	614.257	559.602	488.630	422.670	397.115	373.570	357.467	358.332
145.0	638.369	615.614	561.241	491.499	426.607	401.053	377.508	361.405	362.586
145.5	638.465	616.972	564.061	494.721	430.545	405.031	381.444	365.461	366.523
146.0	639.661	617.855	565.660	497.590	434.129	408.968	385.303	369.399	370.579
146.5	641.846	619.647	567.733	499.631	438.067	412.906	389.201	373.414	374.635
147.0	642.730	620.530	569.725	502.459	442.004	416.844	393.257	377.390	378.729
147.5	644.401	622.362	571.404	504.540	445.588	420.862	397.155	381.407	382.667
148.0	644.416	622.538	573.437	506.975	449.526	424.759	401.093	385.423	386.801
148.5	644.552	623.502	574.682	510.197	453.110	428.303	405.071	389.439	390.818
149.0	645.749	625.293	576.715	513.026	457.088	431.887	408.968	393.376	394.913
149.5	646.359	624.682	577.960	515.107	460.632	435.865	412.906	397.196	398.851
150.0	646.728	626.393	579.993	518.369	464.176	439.803	416.844	401.133	403.183
150.5	648.005	627.356	582.459	520.844	467.719	443.387	420.781	405.465	407.120
151.0	648.060	628.320	582.957	523.713	471.304	446.930	424.365	409.362	411.411
151.5	649.378	628.537	585.384	526.148	474.888	450.868	428.303	413.340	415.389
152.0	649.473	629.147	586.275	529.016	478.472	454.452	432.241	417.237	419.680
152.5	649.135	630.110	587.954	531.098	482.016	457.996	436.218	421.175	423.658
153.0	649.231	630.287	589.633	533.966	485.206	461.580	439.722	424.719	427.596
153.5	650.508	631.291	590.878	536.441	487.215	465.124	443.700	429.050	431.533
154.0	649.816	631.901	591.770	539.310	491.153	469.102	447.244	432.948	435.905
154.5	650.700	632.117	592.581	541.391	493.909	472.252	451.181	436.885	439.883
155.0	651.543	632.687	594.180	543.472	496.312	475.876	454.765	440.429	443.780
155.5	651.285	632.550	595.304	545.987	499.108	479.380	458.703	444.367	447.758
156.0	650.159	633.160	596.035	548.028	502.652	483.004	462.287	448.304	451.656
156.5	651.043	633.810	596.846	550.543	505.449	484.973	465.831	452.202	455.199
157.0	651.452	633.593	598.051	552.665	508.639	488.557	469.375	455.746	459.177
157.5	649.643	633.849	598.863	554.312	511.395	491.707	473.353	459.683	463.115
158.0	649.762	632.925	599.794	556.393	514.192	494.857	476.897	463.621	467.053
158.5	648.708	633.181	600.332	558.121	517.342	497.260	480.047	467.165	470.596
159.0	647.623	633.438	601.264	560.202	520.138	500.410	482.409	470.709	474.534
159.5	648.667	633.654	601.802	562.323	522.501	503.954	487.175	474.646	478.078
160.0	647.380	633.437	602.380	564.010	525.691	506.750	489.143	478.190	482.016
160.5	646.456	633.179	603.352	565.344	528.094	509.941	492.728	481.734	485.600
161.0	646.785	633.235	603.931	567.072	530.063	512.697	495.484	484.490	489.497
161.5	646.021	631.796	604.862	568.759	533.213	515.847	497.887	488.034	492.647
162.0	645.498	631.184	603.906	570.487	535.182	518.644	501.431	491.578	494.142
162.5	644.019	630.219	605.272	571.033	538.372	521.834	504.187	494.335	497.605
163.0	643.600	630.870	605.102	573.155	540.381	524.984	508.165	497.091	500.635
163.5	642.868	629.591	605.327	574.054	543.138	527.387	510.921	500.635	504.138
164.0	643.085	629.575	605.905	575.388	545.106	529.750	513.677	503.785	507.248
164.5	641.806	628.337	605.736	576.288	547.509	532.506	517.261	507.369	511.499
165.0	640.568	628.280	605.961	577.622	549.872	535.656	520.412	510.125	514.649
165.5	638.543	626.255	605.832	578.916	552.274	537.665	522.774	512.882	517.406
166.0	638.526	625.491	605.623	580.249	554.243	540.028	525.571	516.425	521.263
166.5	637.642	624.687	605.888	581.583	555.818	542.824	528.681	519.576	524.807

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CANDELA TABULATION - (Cont.)

167.0	636.677	623.883	605.365	581.382	557.827	544.793	531.871	522.372	527.957
167.5	634.965	622.371	605.236	582.362	559.443	547.156	533.840	525.956	530.713
168.0	632.232	621.214	605.107	583.343	561.411	549.558	537.030	529.106	533.904
168.5	631.822	620.289	604.978	584.363	563.380	551.921	540.220	532.297	537.013
169.0	629.442	618.930	604.062	583.768	565.389	554.283	542.149	534.659	539.730
169.5	628.245	617.459	603.933	585.102	566.530	555.859	545.299	538.203	542.052
170.0	627.047	615.948	603.410	585.335	567.712	558.261	547.702	540.566	545.202
170.5	625.889	615.265	602.140	585.962	568.933	560.230	549.711	543.362	547.999
171.0	623.470	613.834	602.446	586.235	569.721	562.199	551.720	546.119	550.401
171.5	621.565	612.403	600.742	586.508	571.730	563.420	554.123	548.955	553.552
172.0	620.528	610.619	600.693	587.135	573.345	565.389	556.485	550.530	555.834
172.5	618.663	608.875	599.423	587.014	574.486	567.358	558.848	553.680	558.944
173.0	616.051	607.444	598.234	586.934	575.314	569.327	561.210	556.043	560.478
173.5	614.660	605.659	597.872	587.641	576.061	570.114	563.179	558.012	563.275
174.0	613.189	604.269	596.288	587.561	576.455	572.083	564.754	560.415	565.991
174.5	610.891	601.737	595.179	587.480	577.676	574.052	566.683	562.777	567.172
175.0	608.592	599.993	594.070	586.652	578.858	575.233	568.258	564.706	569.495
175.5	606.333	598.329	593.001	587.440	579.605	575.981	570.267	566.715	571.070
176.0	605.730	596.706	591.972	587.400	580.433	577.596	572.196	568.724	574.260
176.5	602.451	594.375	590.984	587.046	580.786	578.383	574.598	570.733	575.482
177.0	600.748	592.912	589.288	587.046	580.867	579.565	574.992	572.661	577.450
177.5	598.216	590.702	588.814	586.259	581.614	579.958	576.961	574.236	578.592
178.0	595.845	589.360	587.986	586.259	582.008	581.140	578.102	576.639	581.782
178.5	593.322	586.917	586.805	585.865	582.008	582.321	579.283	578.174	583.710
179.0	591.626	586.090	585.230	585.865	582.401	582.715	581.292	579.749	584.498
179.5	590.011	584.555	584.442	585.077	582.401	583.502	582.080	580.971	587.688
180.0	583.888	583.888	583.888	583.888	583.888	583.888	583.888	583.888	583.888

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-840U-L19-840D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	216.78	N.A.	5.50
0-30	460.50	N.A.	11.70
0-40	755.39	N.A.	19.20
0-60	1368.18	N.A.	34.70
0-80	1832.4	N.A.	46.50
0-90	1978.22	N.A.	50.20
10-90	1922.22	N.A.	48.80
20-40	538.61	N.A.	13.70
20-50	851.28	N.A.	21.60
40-70	873.70	N.A.	22.20
60-80	464.22	N.A.	11.80
70-80	203.31	N.A.	5.20
80-90	145.82	N.A.	3.70
90-110	347.82	N.A.	8.80
90-120	606.89	N.A.	15.40
90-130	904.89	N.A.	23.00
90-150	1507.41	N.A.	38.20
90-180	1962.79	N.A.	49.80
110-180	1614.97	N.A.	41.00
0-180	3941.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.00
10-20	160.78
20-30	243.72
30-40	294.89
40-50	312.68
50-60	300.12
60-70	260.91
70-80	203.31
80-90	145.82
90-100	145.61
100-110	202.21
110-120	259.07
120-130	298.00
130-140	310.29
140-150	292.23
150-160	241.12
160-170	158.89
170-180	55.37

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-840U-L19-840D-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-L19-840U-L19-840D-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	19.5	20.4	20.5	21.4	22.7	13.6	14.5	14.5	15.5	16.7
	3H	22.6	23.4	23.6	24.4	25.7	14.9	15.8	15.9	16.7	18.0
	4H	24.2	25.0	25.2	26.0	27.2	15.4	16.1	16.3	17.1	18.4
	6H	25.9	26.6	26.8	27.6	28.9	15.6	16.3	16.6	17.3	18.6
	8H	26.7	27.4	27.7	28.5	29.8	15.7	16.3	16.6	17.4	18.7
	12H	27.7	28.4	28.7	29.4	30.7	15.7	16.3	16.7	17.3	18.7

UGR Viewed Endwise

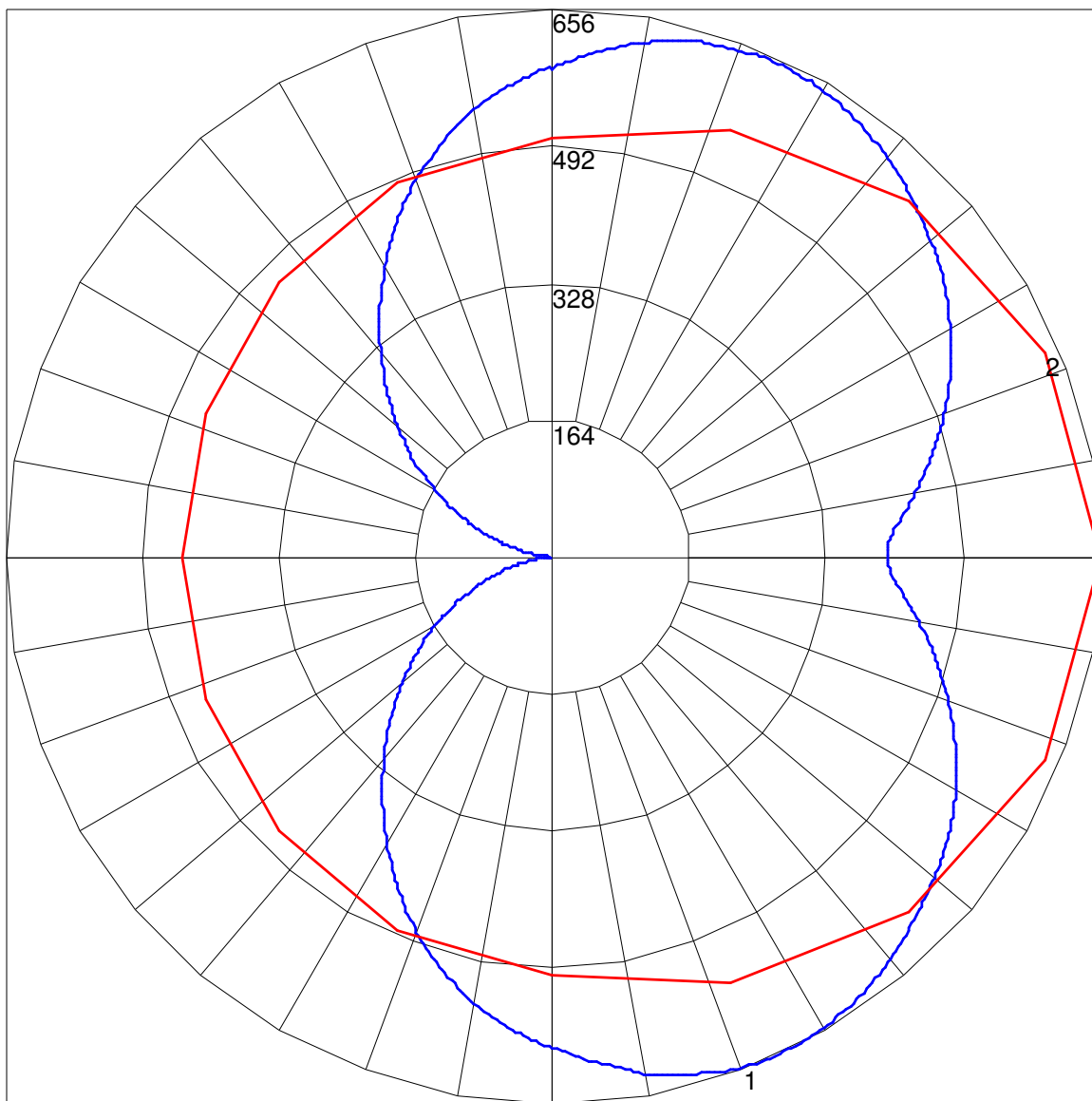
4H	2H	19.8	20.6	20.8	21.6	22.9	14.8	15.6	15.8	16.6	17.9
	3H	23.1	23.8	24.1	24.8	26.1	16.5	17.1	17.4	18.1	19.4
	4H	24.9	25.5	25.9	26.5	27.8	17.0	17.6	18.0	18.6	20.0
	6H	26.8	27.3	27.8	28.3	29.6	17.4	17.9	18.4	19.0	20.3
	8H	27.7	28.2	28.8	29.3	30.6	17.5	18.0	18.5	19.0	20.4
	12H	28.8	29.3	29.9	30.3	31.7	17.5	18.0	18.6	19.0	20.4

8H	4H	25.0	25.5	26.0	26.5	27.9	18.1	18.6	19.1	19.6	21.0
	6H	27.1	27.5	28.1	28.5	29.9	18.8	19.2	19.8	20.2	21.6
	8H	28.2	28.6	29.2	29.6	31.0	19.0	19.4	20.0	20.4	21.8
	12H	29.5	29.8	30.5	30.9	32.3	19.1	19.4	20.1	20.5	21.9

12H	4H	25.0	25.4	26.0	26.5	27.8	18.5	18.9	19.5	20.0	21.3
	6H	27.1	27.4	28.1	28.5	29.9	19.3	19.7	20.3	20.7	22.1
	8H	28.3	28.6	29.3	29.6	31.0	19.6	19.9	20.6	21.0	22.4

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 656.178 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.)