

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-850U-L19-850D-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-L19-850U-L19-850D-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	4056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	11166	10517	10027
55	11100	10050	9157
65	11119	9686	8123
75	11313	9447	6606
85	11892	9631	4377

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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	606.982	606.982	606.982	606.982	606.982	606.982	606.982	606.982	606.982
0.5	607.835	608.848	607.719	610.031	605.894	609.042	604.953	604.921	604.979
1.0	609.490	610.292	609.950	610.526	605.521	608.133	603.217	603.185	603.283
1.5	611.680	612.230	610.607	611.848	605.521	606.438	602.309	601.076	600.387
2.0	613.538	614.623	612.092	611.970	605.066	605.156	600.654	599.380	598.692
2.5	616.223	616.270	614.071	612.505	604.653	604.328	598.999	598.139	597.077
3.0	617.999	618.744	615.636	612.627	604.239	603.501	597.758	595.657	594.968
3.5	620.352	620.925	616.788	614.030	604.239	601.805	595.689	593.961	593.727
4.0	623.450	623.107	618.767	614.152	603.371	600.150	594.861	591.893	590.830
4.5	624.854	624.916	620.332	613.900	602.957	599.737	592.793	589.824	588.307
5.0	625.632	627.179	621.687	615.263	602.130	597.668	590.310	587.715	585.865
5.5	628.520	629.028	622.133	615.425	600.888	595.599	589.069	585.646	584.624
6.0	630.459	630.504	623.325	615.173	600.020	595.145	587.414	583.950	582.101
6.5	632.024	633.302	624.557	614.962	599.233	593.530	585.264	581.013	579.659
7.0	633.589	635.070	625.376	615.043	598.779	592.208	583.195	578.490	576.722
7.5	635.187	636.546	626.236	614.873	596.670	590.139	580.713	576.422	573.826
8.0	638.260	637.608	627.298	613.794	595.429	588.071	578.644	573.899	570.930
8.5	640.984	639.165	628.360	614.410	595.015	586.829	576.535	571.416	568.074
9.0	644.705	640.803	629.301	613.745	592.946	584.720	574.012	568.066	565.178
9.5	646.546	642.229	629.868	613.947	591.664	582.238	571.529	565.543	564.351
10.0	648.598	644.443	630.395	613.363	590.423	580.542	569.461	563.060	559.799
10.5	650.609	645.748	631.335	612.738	588.354	578.514	566.938	560.123	557.771
11.0	651.833	646.681	631.903	611.740	587.486	576.405	564.001	558.055	554.875
11.5	652.936	648.148	632.056	610.742	585.004	573.922	561.559	554.704	551.151
12.0	653.625	649.201	632.624	610.571	583.349	572.640	559.036	551.808	547.882
12.5	656.009	651.083	632.818	609.573	582.067	569.290	556.140	548.912	544.985
13.0	657.355	652.096	633.093	608.575	580.412	567.221	553.203	545.561	540.929
13.5	658.408	653.441	633.368	607.991	577.516	564.739	550.680	542.211	538.528
14.0	660.411	654.292	633.684	607.033	576.234	561.388	546.956	538.901	534.925
14.5	661.797	655.184	633.091	605.581	574.165	559.319	544.019	535.591	531.242
15.0	661.821	655.621	633.285	604.623	571.229	556.796	541.123	532.281	527.559
15.5	662.680	656.099	633.227	602.757	568.746	554.273	537.773	528.557	525.490
16.0	663.045	656.990	632.756	601.223	566.637	551.377	535.250	525.247	520.485
16.5	664.828	657.882	633.526	600.680	564.568	548.481	531.940	522.351	518.002
17.0	666.782	657.532	633.468	598.813	562.499	545.130	529.003	518.587	515.560
17.5	667.089	658.878	632.957	596.493	559.563	543.021	525.239	516.064	511.382
18.0	668.264	658.528	632.445	595.535	556.666	538.843	521.515	512.340	508.486
18.5	669.853	659.047	631.811	593.750	553.730	536.361	519.819	510.271	504.722
19.0	669.454	659.565	631.673	592.460	551.247	533.010	516.509	506.547	500.998
19.5	671.327	659.629	630.626	590.797	548.310	530.487	512.745	502.824	496.820
20.0	672.250	659.360	630.487	588.598	545.828	527.177	511.090	499.100	493.096
20.5	672.517	659.878	629.067	586.813	543.305	523.827	507.326	495.336	488.918
21.0	672.743	659.569	628.514	584.362	539.581	520.517	503.602	491.612	485.195
21.5	673.423	659.755	627.508	583.112	537.058	518.821	500.292	487.474	481.057
22.0	674.306	659.608	626.542	581.489	533.748	514.684	496.528	483.751	476.879
22.5	674.816	659.461	625.535	579.372	530.398	511.706	492.764	480.027	473.155
23.0	674.458	659.687	624.569	577.213	527.461	507.569	489.040	475.889	468.977
23.5	674.554	659.247	623.976	574.228	523.737	505.914	485.276	471.752	464.840
24.0	675.023	659.181	622.596	572.645	521.255	502.563	481.511	467.988	460.289
24.5	675.290	659.034	621.630	570.235	517.490	498.840	477.788	463.891	456.565
25.0	674.729	658.928	619.836	568.491	516.249	495.035	474.023	459.713	452.387
25.5	673.754	657.993	618.870	566.373	513.312	491.311	470.300	455.575	447.836
26.0	674.021	657.765	617.491	563.014	510.416	487.547	466.122	451.852	444.071
26.5	673.501	656.710	616.151	560.442	506.652	483.823	462.357	447.714	439.480

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CANDELA TABULATION - (Cont.)

27.0	672.567	656.068	615.266	558.324	502.888	480.018	458.220	443.577	435.342
27.5	672.541	655.840	612.767	556.206	499.537	476.295	454.456	439.399	431.164
28.0	672.808	654.784	611.135	552.393	495.813	472.117	450.691	435.261	426.613
28.5	671.711	653.728	609.877	550.648	492.503	468.393	446.554	431.124	422.435
29.0	670.818	653.500	608.619	547.289	488.366	464.629	442.416	426.572	418.297
29.5	670.630	651.617	607.028	543.849	484.602	460.491	438.238	422.435	413.953
30.0	670.313	650.480	605.356	541.691	480.837	456.273	434.515	418.257	409.652
30.5	669.257	649.546	603.684	538.746	477.114	452.549	430.337	414.078	405.513
31.0	669.110	648.904	602.052	535.719	473.390	448.371	426.199	409.899	401.211
31.5	668.216	648.181	599.553	534.389	469.626	444.233	422.062	405.803	396.951
32.0	666.828	647.126	598.335	530.948	465.488	440.469	417.884	401.541	392.854
32.5	667.094	645.656	596.208	529.204	461.724	436.291	413.705	397.403	388.511
33.0	664.838	645.055	594.455	526.259	458.000	432.154	409.526	393.060	384.167
33.5	665.226	643.131	592.289	522.859	453.822	427.976	405.388	388.881	379.988
34.0	664.665	641.702	589.708	519.873	449.685	423.838	401.210	384.785	375.644
34.5	663.358	640.233	587.127	516.433	445.507	420.074	397.032	380.523	371.424
35.0	661.808	638.763	585.415	513.034	441.369	415.812	392.935	376.344	367.328
35.5	660.833	637.748	583.621	510.048	437.645	411.634	388.839	372.124	363.025
36.0	659.274	635.451	581.122	506.648	433.508	407.455	384.661	367.986	358.723
36.5	658.380	633.982	579.369	503.249	428.957	403.277	380.317	363.932	354.461
37.0	656.952	632.967	576.334	499.809	424.779	399.223	376.262	359.671	350.158
37.5	655.685	630.710	573.713	496.409	420.641	394.921	372.125	355.368	346.104
38.0	655.164	628.827	572.041	493.010	416.504	390.742	367.905	351.313	341.719
38.5	652.575	627.398	568.633	489.610	412.284	386.480	363.767	347.094	337.375
39.0	651.309	626.383	566.425	485.797	407.981	382.385	359.547	342.956	333.155
39.5	649.506	624.086	566.741	482.357	403.803	378.206	355.492	338.736	328.976
40.0	649.027	622.657	564.201	478.957	399.500	373.903	351.397	334.600	324.921
40.5	646.519	621.148	561.661	475.144	395.197	369.725	347.135	330.461	320.742
41.0	644.635	618.972	559.040	471.704	391.019	365.546	342.998	326.283	316.482
41.5	642.541	617.089	556.500	467.972	386.633	361.203	338.778	322.228	312.386
42.0	642.021	615.579	553.465	464.612	382.371	357.230	334.641	318.009	308.290
42.5	640.300	613.736	550.884	461.253	378.068	353.010	330.462	313.789	304.235
43.0	638.165	610.612	548.223	457.975	373.766	348.749	326.325	309.817	299.933
43.5	637.150	609.143	545.683	454.243	369.256	344.487	322.063	305.556	295.919
44.0	634.974	607.260	542.729	450.511	365.036	340.309	317.801	301.377	291.989
44.5	633.253	605.417	539.654	446.738	360.650	336.172	313.623	297.282	287.893
45.0	631.987	603.947	537.114	443.339	356.347	331.787	309.486	293.062	283.880
45.5	629.276	601.277	534.119	439.608	352.045	327.566	305.183	289.007	279.661
46.0	629.088	599.435	531.125	435.919	347.659	323.304	301.045	284.911	275.606
46.5	626.580	598.379	528.544	432.188	343.314	319.085	296.784	280.733	271.717
47.0	625.646	597.737	525.550	428.374	338.805	314.865	292.605	276.719	267.787
47.5	624.258	596.016	522.515	424.766	334.337	310.562	288.427	272.582	263.608
48.0	622.577	593.598	519.642	421.158	329.910	306.135	284.330	268.651	259.553
48.5	619.867	591.422	516.527	417.508	325.565	301.832	280.069	264.556	255.540
49.0	618.186	589.125	513.573	413.735	321.222	297.571	275.890	260.584	251.444
49.5	616.546	586.828	510.538	409.962	316.836	293.392	271.794	256.572	247.555
50.0	616.772	585.026	507.503	406.272	312.409	289.131	267.699	252.558	243.458
50.5	613.810	582.729	504.549	402.460	308.023	284.745	263.479	248.751	239.487
51.0	613.249	580.514	501.595	398.770	303.679	280.525	259.383	244.697	235.475
51.5	611.195	578.257	498.147	394.956	299.335	276.181	255.204	240.684	231.586
52.0	609.141	575.547	495.072	390.978	294.907	272.002	251.190	236.754	227.779
52.5	607.380	573.290	492.118	387.248	290.563	267.783	247.095	232.823	223.807
53.0	605.205	570.953	488.710	383.352	286.177	263.480	242.958	228.893	219.794
53.5	603.029	568.737	485.633	379.498	281.916	259.135	238.820	225.004	215.781
54.0	601.016	566.399	482.433	375.561	277.490	254.956	234.724	220.990	212.222
54.5	598.841	563.851	479.108	371.582	273.228	250.819	230.670	217.143	208.293

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CANDELA TABULATION - (Cont.)

55.0	596.746	561.513	475.949	367.728	268.884	246.517	226.574	213.171	204.320
55.5	594.611	558.803	472.830	363.708	264.581	242.173	222.520	209.241	200.514
56.0	592.517	556.546	469.588	359.813	260.195	237.994	218.506	205.476	196.501
56.5	590.504	553.836	466.221	355.751	255.850	233.733	214.328	201.421	192.819
57.0	588.369	551.620	462.897	351.731	251.465	229.553	210.438	197.698	189.177
57.5	585.821	548.950	459.695	347.712	247.161	225.210	206.467	193.685	185.165
58.0	583.564	546.199	456.412	343.567	242.693	220.989	202.371	189.919	181.317
58.5	581.551	543.528	453.047	339.548	238.308	216.811	198.440	186.072	177.428
59.0	579.416	540.939	449.557	335.404	233.839	212.591	194.509	182.182	173.745
59.5	576.908	538.148	446.313	331.260	229.329	208.330	190.620	178.417	169.980
60.0	574.197	535.437	442.824	327.241	224.902	204.027	186.731	174.611	166.174
60.5	571.730	532.767	439.582	323.222	220.516	199.807	182.760	170.846	162.367
61.0	569.595	530.054	436.216	319.284	216.172	195.546	178.788	167.039	158.602
61.5	567.006	527.344	432.851	315.223	211.745	191.408	174.816	163.233	154.796
62.0	564.003	524.468	429.319	311.079	207.400	187.147	171.009	159.427	151.155
62.5	561.455	521.631	425.993	307.018	202.931	182.968	167.037	155.579	147.307
63.0	558.906	518.919	422.670	302.958	198.628	178.665	163.066	151.814	143.624
63.5	556.358	515.919	419.305	298.896	194.243	174.404	159.176	148.089	139.818
64.0	553.849	513.001	415.773	294.835	189.857	170.349	155.246	144.242	136.261
64.5	550.887	510.125	412.450	290.775	185.513	166.129	151.232	140.477	132.826
65.0	548.050	507.249	408.795	286.549	181.128	161.991	147.219	136.753	128.978
65.5	545.173	504.207	405.428	282.364	176.700	157.771	143.371	132.988	125.337
66.0	542.376	501.082	402.021	278.304	172.397	153.552	139.358	129.305	121.779
66.5	539.743	498.082	398.409	274.202	168.094	149.332	135.511	125.499	118.220
67.0	536.781	495.081	395.042	270.100	163.791	145.194	131.745	121.858	114.786
67.5	533.902	492.080	391.428	265.874	159.487	141.139	127.897	118.175	111.187
68.0	531.064	488.957	387.898	261.690	154.978	137.126	124.008	114.535	107.504
68.5	528.060	485.832	384.409	257.546	150.633	132.906	120.119	110.894	103.863
69.0	525.431	482.750	380.754	253.486	146.372	128.892	116.271	107.253	100.512
69.5	522.468	479.750	377.346	249.467	142.110	124.755	112.630	103.694	97.036
70.0	519.671	476.624	373.693	245.448	137.807	120.742	108.865	100.136	93.560
70.5	516.790	473.459	370.161	241.387	133.547	116.646	105.142	96.495	89.961
71.0	513.993	470.333	366.590	237.205	129.243	112.674	101.418	93.061	86.486
71.5	511.153	467.208	362.854	233.186	125.188	108.702	97.778	89.627	83.052
72.0	508.071	463.879	359.364	229.291	120.967	104.730	94.136	86.193	79.906
72.5	505.149	460.836	355.792	225.314	116.458	100.800	90.536	82.883	76.389
73.0	502.107	457.630	352.303	221.460	112.402	96.952	87.019	79.407	73.079
73.5	499.144	454.341	348.774	217.482	108.224	93.228	83.461	76.015	69.687
74.0	496.222	451.175	345.120	213.506	104.127	89.463	79.944	72.786	66.460
74.5	493.056	447.847	341.589	209.571	100.155	85.739	76.510	69.518	63.440
75.0	490.053	444.681	337.896	205.758	96.142	82.016	73.117	66.291	60.171
75.5	486.968	441.392	334.368	201.782	92.210	78.375	69.724	62.981	57.067
76.0	483.843	438.227	331.003	197.889	88.280	74.816	66.291	59.878	54.047
76.5	480.713	434.898	327.392	194.199	84.349	71.300	62.898	56.651	51.069
77.0	477.546	431.775	323.863	190.265	80.542	67.783	59.753	53.631	48.296
77.5	474.379	428.488	320.335	186.617	76.653	64.307	56.485	50.569	45.400
78.0	471.295	425.324	316.930	182.889	73.012	60.832	53.299	47.631	42.586
78.5	467.962	422.038	313.565	179.365	69.329	57.439	50.154	44.734	39.773
79.0	464.838	418.669	310.120	175.638	65.770	54.170	47.051	41.838	36.918
79.5	461.670	415.506	306.756	172.034	62.171	50.943	44.030	38.942	34.311
80.0	458.423	412.301	303.353	168.472	58.612	47.798	41.093	36.211	31.663
80.5	455.175	409.058	299.948	165.115	55.177	44.653	38.196	33.480	29.098
81.0	452.132	405.936	296.791	161.758	51.867	41.592	35.383	30.832	26.450
81.5	449.007	402.566	293.513	158.403	48.639	38.653	32.610	28.226	23.885
82.0	445.841	399.445	290.356	155.047	45.454	35.757	29.839	25.661	21.486
82.5	443.003	396.614	287.243	151.815	42.268	32.985	27.272	23.301	19.209

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CANDELA TABULATION - (Cont.)

83.0	439.922	393.575	284.047	148.788	39.206	30.171	24.707	20.902	16.851
83.5	437.005	390.495	280.934	145.803	36.268	27.440	22.266	18.543	14.575
84.0	434.170	387.580	277.986	142.821	33.413	24.833	19.866	16.268	12.340
84.5	431.251	384.584	274.997	139.838	30.600	22.309	17.425	13.992	10.273
85.0	428.498	381.547	272.050	137.020	27.869	19.868	15.108	11.882	8.410
85.5	425.786	378.756	268.978	134.202	25.180	17.427	12.873	9.855	6.755
86.0	423.076	376.087	266.031	131.509	22.573	15.069	10.722	8.034	5.555
86.5	420.567	373.661	263.372	128.815	20.049	12.792	8.653	6.626	4.727
87.0	418.261	371.967	260.750	126.327	17.650	10.558	6.832	5.509	4.189
87.5	416.603	370.678	258.781	123.758	15.250	8.406	5.549	4.805	3.857
88.0	415.800	370.081	257.377	121.229	12.809	6.295	4.639	4.309	3.690
88.5	415.196	369.644	256.500	119.023	10.368	4.558	4.141	3.936	3.484
89.0	414.837	369.534	256.275	117.508	7.884	3.730	3.852	3.811	3.441
89.5	414.765	369.465	256.091	117.006	5.773	3.440	3.728	3.687	3.400
90.0	414.813	369.437	256.112	117.035	4.937	3.357	3.685	3.686	3.441
90.5	414.494	369.533	256.136	117.270	5.865	3.356	3.685	3.685	3.398
91.0	414.667	369.836	256.446	118.372	7.890	3.396	3.643	3.726	3.398
91.5	414.758	370.386	257.127	120.302	10.322	4.044	3.684	3.685	3.357
92.0	415.263	371.266	258.676	122.605	12.672	5.218	3.805	3.643	3.438
92.5	415.807	372.763	260.803	124.908	14.941	7.123	4.129	3.765	3.519
93.0	416.931	374.636	263.341	127.579	17.209	9.352	4.939	3.927	3.803
93.5	418.385	377.001	266.045	129.963	19.559	11.581	6.317	4.372	4.451
94.0	420.541	379.696	268.828	132.673	22.031	13.850	8.181	5.263	5.707
94.5	423.151	382.434	271.447	135.342	24.544	16.037	10.329	6.682	7.450
95.0	425.884	385.374	274.517	138.010	27.137	18.428	12.516	8.384	9.394
95.5	428.618	388.356	277.464	140.801	29.812	20.860	14.785	10.450	11.624
96.0	431.475	391.132	280.368	143.672	32.567	23.291	17.218	12.680	13.812
96.5	434.248	393.989	283.355	146.667	35.403	25.844	19.608	14.908	16.162
97.0	437.063	396.889	286.341	149.701	38.321	28.397	22.080	17.258	18.553
97.5	439.959	399.867	289.369	152.734	41.361	31.112	24.593	19.731	20.904
98.0	442.771	402.846	292.398	155.970	44.359	33.868	27.105	22.122	23.294
98.5	445.748	405.907	295.588	159.247	47.561	36.704	29.738	24.633	25.888
99.0	448.683	409.008	298.778	162.482	50.884	39.743	32.454	27.186	28.481
99.5	451.619	412.027	302.008	165.881	54.206	42.742	35.250	29.862	31.197
100.0	454.553	415.128	305.320	169.319	57.610	45.903	38.046	32.536	33.790
100.5	457.489	418.268	308.590	172.757	61.095	49.064	40.963	35.211	36.545
101.0	460.587	421.327	311.942	176.317	64.662	52.225	44.003	37.966	39.261
101.5	463.440	424.384	315.251	179.837	68.267	55.629	47.002	40.762	42.138
102.0	466.536	427.568	318.723	183.437	71.955	58.788	50.122	43.640	45.097
102.5	469.511	430.626	322.073	186.997	75.643	62.355	53.243	46.598	48.014
103.0	472.570	433.766	325.464	190.597	79.493	66.570	56.444	49.556	51.013
103.5	475.625	436.865	328.894	194.278	83.383	70.055	59.686	52.595	53.971
104.0	478.684	439.964	332.367	198.041	87.193	73.012	62.928	55.676	57.132
104.5	481.657	443.226	335.796	201.721	91.083	76.741	66.332	58.836	60.293
105.0	484.795	446.285	339.186	205.402	95.135	80.307	69.696	62.038	63.494
105.5	487.485	449.424	342.697	209.165	99.148	84.076	73.099	65.239	66.696
106.0	490.580	452.564	346.087	212.967	103.199	88.290	76.585	68.481	69.979
106.5	493.474	455.581	349.476	216.811	107.374	92.667	80.110	71.764	73.220
107.0	496.490	458.680	352.906	220.532	111.467	95.868	83.595	75.127	76.746
107.5	499.505	461.819	356.296	224.376	115.641	99.312	87.243	78.450	80.029
108.0	502.398	464.876	359.808	228.300	119.815	103.203	90.809	82.017	83.473
108.5	505.249	467.934	363.279	232.225	124.070	107.175	94.415	85.420	86.878
109.0	508.305	470.870	366.710	236.108	128.285	111.105	98.143	88.987	90.363
109.5	511.116	474.133	370.139	239.951	132.499	115.077	101.832	92.431	93.807
110.0	514.050	476.987	373.489	243.957	136.795	119.089	105.479	95.997	97.415
110.5	516.902	480.046	376.715	247.881	141.090	123.100	109.247	99.563	100.940

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-850U-L19-850D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	519.795	482.901	380.104	251.806	145.426	127.154	113.016	103.171	104.547
111.5	522.609	485.878	383.535	255.812	149.762	131.206	116.744	106.818	107.991
112.0	525.298	488.856	386.883	259.776	154.098	135.299	120.594	110.465	111.475
112.5	528.191	491.793	390.313	263.822	158.556	139.473	124.484	114.071	115.042
113.0	530.798	494.730	393.704	267.786	162.852	143.647	128.293	117.678	118.689
113.5	533.652	497.626	397.051	271.913	167.188	147.862	132.224	121.406	122.417
114.0	536.381	500.398	400.399	275.878	171.645	151.995	136.237	125.094	126.065
114.5	539.070	503.253	403.748	279.883	175.941	156.250	141.018	128.904	129.712
115.0	541.598	506.151	407.097	283.929	180.318	160.465	146.124	132.672	133.441
115.5	544.167	509.006	410.405	287.934	184.735	164.761	149.771	136.360	137.047
116.0	546.937	511.657	413.795	291.939	189.152	168.975	152.284	140.129	140.978
116.5	549.426	514.514	416.979	295.945	193.488	173.190	155.769	143.897	144.666
117.0	552.195	517.370	420.410	299.990	197.906	177.566	160.389	147.747	148.516
117.5	554.642	519.980	423.636	303.955	202.404	181.741	165.576	151.435	152.162
118.0	557.090	522.794	426.903	308.001	206.700	186.117	169.709	155.326	155.972
118.5	559.413	525.406	430.333	311.965	211.157	190.414	172.547	159.012	159.741
119.0	561.901	527.936	433.520	316.011	215.575	194.628	175.708	162.985	163.632
119.5	564.390	530.871	436.786	319.976	219.992	198.802	179.598	166.794	167.278
120.0	566.754	533.525	440.012	323.900	224.491	203.057	183.570	170.684	171.332
120.5	569.160	536.097	443.239	327.743	228.868	207.394	187.581	174.535	175.060
121.0	571.566	538.627	446.507	331.748	233.123	211.608	191.553	178.465	178.870
121.5	574.013	541.281	449.652	335.630	237.580	215.782	195.524	183.125	182.679
122.0	576.014	543.852	452.880	339.636	241.997	219.997	199.658	188.435	186.569
122.5	578.503	545.936	455.984	343.519	246.333	224.171	203.629	192.973	190.500
123.0	580.950	548.590	459.170	347.402	250.710	228.468	207.683	195.972	194.390
123.5	583.397	551.078	462.398	351.245	255.127	232.641	211.735	199.579	198.402
124.0	585.439	553.286	465.624	355.088	259.423	236.896	215.829	204.280	203.792
124.5	587.886	555.816	468.727	359.012	263.841	241.193	219.881	208.252	210.804
125.0	590.011	558.428	471.955	362.894	268.136	245.285	224.014	210.926	215.301
125.5	592.011	560.595	475.140	366.778	272.553	249.540	228.067	213.764	217.409
126.0	594.417	563.166	478.125	370.499	276.849	253.755	232.160	217.531	218.138
126.5	596.418	565.415	481.308	374.301	281.144	257.889	236.172	221.422	221.542
127.0	598.543	567.986	484.698	378.104	285.522	262.184	240.224	225.354	225.433
127.5	600.626	570.152	487.601	381.784	289.858	266.358	244.318	229.244	229.364
128.0	602.627	572.360	490.420	385.626	294.113	270.654	248.452	233.175	233.376
128.5	604.710	574.931	493.769	389.429	298.530	274.950	252.382	237.147	237.307
129.0	606.793	577.138	496.672	393.150	302.907	279.124	256.638	241.199	241.318
129.5	606.768	579.305	499.574	396.912	307.243	283.338	260.812	245.130	245.330
130.0	608.893	581.471	502.923	400.674	311.538	287.553	264.945	249.061	249.343
130.5	610.165	583.637	505.784	404.476	315.835	291.849	269.079	252.992	253.395
131.0	612.166	585.356	508.686	408.156	320.211	296.064	273.090	256.964	257.366
131.5	612.670	587.241	511.588	411.877	324.628	300.237	277.184	261.016	261.379
132.0	615.845	589.002	514.491	415.558	328.964	304.411	281.398	265.028	265.512
132.5	617.970	590.722	517.393	419.239	333.382	308.667	285.491	269.040	269.523
133.0	618.879	592.201	520.295	422.839	337.759	312.841	289.746	272.971	273.537
133.5	620.879	593.557	523.198	426.559	342.014	317.097	293.839	277.510	277.549
134.0	623.773	596.170	526.059	430.322	346.310	321.352	298.054	281.481	281.683
134.5	624.641	597.931	528.556	434.002	350.646	325.485	302.228	285.534	285.653
135.0	626.683	600.543	531.458	437.765	354.982	329.821	306.320	289.627	289.910
135.5	629.213	601.858	534.361	441.039	359.319	334.076	310.536	293.761	293.840
136.0	630.039	603.660	537.139	444.802	363.614	338.332	314.629	297.691	297.974
136.5	632.891	605.462	539.719	448.441	367.869	342.424	318.763	301.785	301.903
137.0	632.949	607.587	542.174	452.162	372.206	346.719	322.936	305.798	306.201
137.5	635.313	609.794	545.118	455.519	376.421	351.017	326.948	309.808	310.253
138.0	636.181	611.150	546.681	459.117	380.673	355.148	331.038	313.819	314.056
138.5	638.669	613.763	548.814	462.433	384.767	359.322	335.214	318.075	318.395

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CANDELA TABULATION - (Cont.)

139.0	640.066	614.755	551.716	466.113	388.982	363.374	339.307	322.087	322.529
139.5	641.215	616.474	553.767	469.346	393.238	367.630	343.401	326.181	326.623
140.0	642.488	618.318	556.305	472.621	397.412	371.682	347.372	330.193	330.676
140.5	644.613	620.161	557.587	476.259	401.627	375.898	351.587	334.408	335.054
141.0	645.844	621.922	559.678	479.493	405.924	379.991	355.761	338.703	339.349
141.5	647.522	622.550	562.581	483.131	410.179	384.125	359.854	342.918	343.523
142.0	648.473	624.799	564.631	486.406	414.231	388.258	363.946	347.132	347.737
142.5	649.746	626.560	567.170	489.639	418.283	392.310	367.998	351.144	351.952
143.0	651.746	627.874	569.220	492.955	422.336	396.444	372.050	355.196	356.126
143.5	653.466	628.866	571.312	496.271	426.793	400.658	376.265	359.492	360.341
144.0	652.713	630.304	573.809	499.587	430.887	404.792	380.316	363.705	364.555
144.5	654.920	632.148	575.901	502.862	434.980	408.682	384.451	367.879	368.769
145.0	656.962	633.545	577.588	505.814	439.033	412.734	388.503	371.931	373.146
145.5	657.061	634.942	580.490	509.130	443.085	416.828	392.554	376.105	377.199
146.0	658.292	635.851	582.135	512.083	446.774	420.880	396.526	380.158	381.373
146.5	660.541	637.695	584.269	514.183	450.826	424.932	400.537	384.290	385.546
147.0	661.450	638.604	586.319	517.094	454.878	428.985	404.711	388.382	389.760
147.5	663.169	640.489	588.047	519.236	458.567	433.120	408.723	392.516	393.812
148.0	663.185	640.670	590.139	521.741	462.619	437.131	412.775	396.649	398.067
148.5	663.325	641.662	591.420	525.057	466.307	440.778	416.869	400.782	402.201
149.0	664.557	643.505	593.512	527.968	470.401	444.466	420.880	404.834	406.415
149.5	665.185	642.876	594.794	530.110	474.048	448.560	424.932	408.764	410.468
150.0	665.564	644.637	596.886	533.468	477.695	452.612	428.985	412.817	414.926
150.5	666.879	645.629	599.424	536.015	481.342	456.301	433.037	417.274	418.978
151.0	666.936	646.621	599.936	538.967	485.031	459.948	436.726	421.285	423.394
151.5	668.292	646.843	602.434	541.472	488.719	464.000	440.778	425.379	427.488
152.0	668.390	647.471	603.351	544.425	492.408	467.689	444.830	429.390	431.904
152.5	668.042	648.463	605.079	546.566	496.055	471.336	448.924	433.442	435.998
153.0	668.141	648.644	606.807	549.519	499.338	475.024	452.530	437.089	440.050
153.5	669.455	649.678	608.089	552.066	501.406	478.671	456.623	441.547	444.102
154.0	668.743	650.306	609.006	555.018	505.458	482.765	460.270	445.558	448.601
154.5	669.652	650.528	609.841	557.160	508.295	486.007	464.323	449.610	452.695
155.0	670.520	651.115	611.486	559.301	510.767	489.737	468.011	453.257	456.706
155.5	670.254	650.974	612.643	561.890	513.645	493.342	472.063	457.310	460.800
156.0	669.096	651.602	613.395	563.990	517.292	497.072	475.752	461.362	464.811
156.5	670.005	652.271	614.230	566.579	520.170	499.098	479.399	465.373	468.458
157.0	670.426	652.047	615.470	568.762	523.454	502.787	483.046	469.020	472.551
157.5	668.564	652.311	616.305	570.457	526.290	506.029	487.140	473.072	476.604
158.0	668.687	651.359	617.264	572.599	529.168	509.271	490.787	477.125	480.656
158.5	667.603	651.624	617.818	574.376	532.410	511.743	494.029	480.772	484.303
159.0	666.486	651.888	618.777	576.518	535.288	514.985	496.460	484.419	488.355
159.5	667.560	652.110	619.330	578.701	537.719	518.632	501.364	488.471	492.003
160.0	666.236	651.886	619.925	580.438	541.003	521.510	503.390	492.118	496.055
160.5	665.285	651.621	620.926	581.811	543.475	524.793	507.079	495.765	499.743
161.0	665.623	651.678	621.521	583.589	545.502	527.630	509.915	498.602	503.754
161.5	664.837	650.197	622.480	585.325	548.743	530.872	512.388	502.249	506.996
162.0	664.299	649.568	621.495	587.103	550.770	533.750	516.035	505.896	508.534
162.5	662.777	648.575	622.901	587.665	554.053	537.033	518.872	508.733	512.099
163.0	662.346	649.245	622.727	589.848	556.120	540.275	522.966	511.569	515.216
163.5	661.593	647.929	622.958	590.774	558.957	542.748	525.802	515.216	518.822
164.0	661.815	647.912	623.553	592.147	560.983	545.179	528.639	518.458	522.023
164.5	660.500	646.638	623.379	593.073	563.456	548.016	532.327	522.147	526.397
165.0	659.226	646.580	623.610	594.446	565.887	551.258	535.569	524.983	529.639
165.5	657.141	644.495	623.478	595.777	568.360	553.325	538.001	527.820	532.476
166.0	657.124	643.709	623.262	597.150	570.386	555.757	540.879	531.467	536.445
166.5	656.214	642.881	623.535	598.523	572.007	558.635	544.079	534.709	540.092

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CANDELA TABULATION - (Cont.)

167.0	655.221	642.054	622.997	598.316	574.075	560.661	547.362	537.587	543.334
167.5	653.459	640.499	622.864	599.324	575.737	563.092	549.388	541.275	546.171
168.0	650.646	639.307	622.732	600.333	577.763	565.565	552.672	544.517	549.454
168.5	650.224	638.356	622.599	601.383	579.789	567.996	555.955	547.800	552.655
169.0	647.776	636.957	621.656	600.771	581.857	570.428	557.940	550.232	555.450
169.5	646.543	635.444	621.523	602.144	583.031	572.049	561.182	553.879	557.840
170.0	645.310	633.888	620.985	602.384	584.247	574.521	563.654	556.310	561.082
170.5	644.119	633.185	619.679	603.029	585.504	576.548	565.722	559.188	563.960
171.0	641.629	631.713	619.992	603.310	586.314	578.574	567.789	562.025	566.433
171.5	639.669	630.240	618.239	603.591	588.382	579.831	570.262	564.944	569.674
172.0	638.601	628.404	618.189	604.236	590.044	581.857	572.694	566.565	572.023
172.5	636.682	626.609	616.882	604.112	591.219	583.883	575.125	569.807	575.224
173.0	633.994	625.136	615.658	604.029	592.070	585.909	577.556	572.238	576.803
173.5	632.563	623.300	615.285	604.757	592.840	586.720	579.582	574.265	579.681
174.0	631.049	621.869	613.656	604.674	593.245	588.746	581.203	576.737	582.476
174.5	628.684	619.264	612.515	604.591	594.502	590.772	583.188	579.169	583.692
175.0	626.318	617.469	611.373	603.739	595.718	591.988	584.809	581.154	586.082
175.5	623.994	615.756	610.273	604.550	596.487	592.757	586.877	583.221	587.703
176.0	623.373	614.086	609.214	604.509	597.338	594.419	588.861	585.289	590.986
176.5	619.999	611.687	608.197	604.145	597.702	595.230	591.334	587.356	592.243
177.0	618.245	610.182	606.452	604.145	597.785	596.445	591.739	589.341	594.269
177.5	615.640	607.907	605.964	603.334	598.554	596.850	593.766	590.962	595.444
178.0	613.200	606.526	605.112	603.334	598.959	598.066	594.940	593.435	598.727
178.5	610.603	604.012	603.896	602.929	598.959	599.282	596.156	595.014	600.712
179.0	608.858	603.160	602.275	602.929	599.365	599.687	598.223	596.635	601.522
179.5	607.195	601.581	601.465	602.118	599.365	600.498	599.034	597.892	604.805
180.0	600.894	600.894	600.894	600.894	600.894	600.894	600.894	600.894	600.894

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-850U-L19-850D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.10	N.A.	5.50
0-30	473.91	N.A.	11.70
0-40	777.39	N.A.	19.20
0-60	1408.03	N.A.	34.70
0-80	1885.77	N.A.	46.50
0-90	2035.84	N.A.	50.20
10-90	1978.21	N.A.	48.80
20-40	554.29	N.A.	13.70
20-50	876.08	N.A.	21.60
40-70	899.15	N.A.	22.20
60-80	477.74	N.A.	11.80
70-80	209.23	N.A.	5.20
80-90	150.07	N.A.	3.70
90-110	357.95	N.A.	8.80
90-120	624.57	N.A.	15.40
90-130	931.25	N.A.	23.00
90-150	1551.31	N.A.	38.20
90-180	2019.96	N.A.	49.80
110-180	1662.01	N.A.	41.00
0-180	4055.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.63
10-20	165.46
20-30	250.82
30-40	303.48
40-50	321.78
50-60	308.86
60-70	268.51
70-80	209.23
80-90	150.07
90-100	149.85
100-110	208.10
110-120	266.62
120-130	306.68
130-140	319.32
140-150	300.74
150-160	248.14
160-170	163.52
170-180	56.99

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-850U-L19-850D-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-L19-850U-L19-850D-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	19.6	20.5	20.6	21.5	22.8	13.7	14.6	14.6	15.6	16.8
	3H	22.7	23.5	23.7	24.5	25.8	15.0	15.9	16.0	16.8	18.1
	4H	24.3	25.1	25.3	26.1	27.3	15.5	16.2	16.4	17.2	18.5
	6H	26.0	26.7	26.9	27.7	29.0	15.7	16.4	16.7	17.4	18.7
	8H	26.8	27.5	27.8	28.5	29.9	15.8	16.4	16.7	17.5	18.8
	12H	27.8	28.5	28.8	29.5	30.8	15.8	16.4	16.8	17.4	18.8

UGR Viewed Endwise

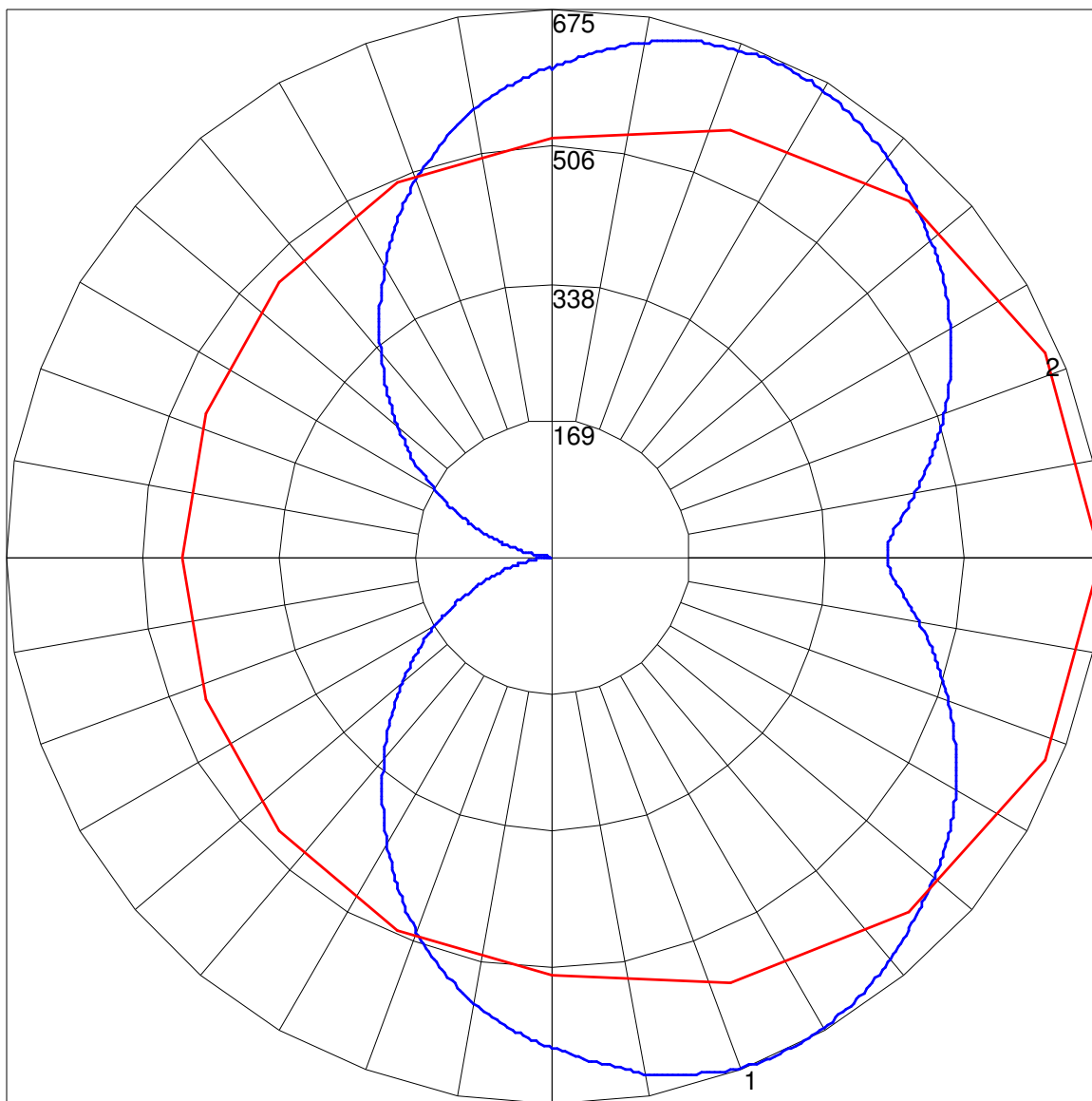
4H	2H	19.9	20.7	20.9	21.7	23.0	14.9	15.7	15.9	16.7	18.0
	3H	23.2	23.9	24.2	24.9	26.2	16.6	17.2	17.5	18.2	19.5
	4H	25.0	25.6	26.0	26.6	27.9	17.1	17.7	18.1	18.7	20.1
	6H	26.9	27.4	27.9	28.4	29.7	17.5	18.0	18.5	19.1	20.4
	8H	27.8	28.3	28.9	29.4	30.7	17.6	18.1	18.6	19.1	20.5
	12H	28.9	29.4	30.0	30.4	31.8	17.6	18.1	18.7	19.1	20.5

8H	4H	25.1	25.6	26.1	26.6	28.0	18.2	18.7	19.2	19.7	21.1
	6H	27.2	27.6	28.2	28.6	30.0	18.9	19.3	19.9	20.3	21.7
	8H	28.3	28.7	29.3	29.7	31.1	19.1	19.5	20.1	20.5	21.9
	12H	29.6	29.9	30.6	31.0	32.4	19.2	19.5	20.2	20.6	22.0

12H	4H	25.1	25.5	26.1	26.6	27.9	18.6	19.0	19.6	20.1	21.4
	6H	27.2	27.5	28.2	28.6	30.0	19.4	19.8	20.4	20.8	22.2
	8H	28.4	28.7	29.4	29.7	31.1	19.7	20.0	20.7	21.1	22.5

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 675.29 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.)