

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-930U-L19-930D-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-L19-930U-L19-930D-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	3138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	8638	8136	7756
55	8587	7775	7083
65	8602	7493	6284
75	8751	7308	5110
85	9199	7451	3386

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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	469.552	469.552	469.552	469.552	469.552	469.552	469.552	469.552	469.552
0.5	470.212	470.995	470.123	471.911	468.710	471.146	467.983	467.958	468.003
1.0	471.492	472.112	471.848	472.294	468.422	470.443	466.640	466.615	466.691
1.5	473.186	473.612	472.357	473.317	468.422	469.131	465.937	464.983	464.450
2.0	474.623	475.463	473.505	473.411	468.070	468.139	464.657	463.672	463.139
2.5	476.701	476.737	475.036	473.825	467.750	467.499	463.376	462.712	461.890
3.0	478.075	478.651	476.247	473.919	467.430	466.859	462.416	460.791	460.258
3.5	479.895	480.338	477.138	475.005	467.430	465.548	460.816	459.479	459.298
4.0	482.292	482.026	478.669	475.099	466.759	464.267	460.176	457.879	457.057
4.5	483.377	483.425	479.880	474.904	466.439	463.947	458.575	456.279	455.106
5.0	483.980	485.176	480.928	475.958	465.798	462.347	456.655	454.647	453.217
5.5	486.214	486.606	481.272	476.084	464.838	460.747	455.695	453.047	452.256
6.0	487.713	487.748	482.195	475.889	464.167	460.395	454.414	451.735	450.305
6.5	488.924	489.913	483.148	475.726	463.558	459.146	452.751	449.463	448.416
7.0	490.135	491.280	483.782	475.788	463.206	458.123	451.151	447.512	446.144
7.5	491.371	492.422	484.447	475.656	461.575	456.523	449.231	445.911	443.903
8.0	493.748	493.244	485.268	474.821	460.615	454.923	447.630	443.959	441.663
8.5	495.855	494.448	486.090	475.298	460.295	453.962	445.999	442.039	439.454
9.0	498.734	495.715	486.818	474.784	458.694	452.331	444.047	439.447	437.213
9.5	500.158	496.819	487.256	474.940	457.703	450.410	442.126	437.495	436.573
10.0	501.745	498.532	487.664	474.488	456.742	449.099	440.526	435.575	433.052
10.5	503.301	499.541	488.392	474.005	455.142	447.530	438.574	433.303	431.483
11.0	504.248	500.262	488.830	473.233	454.471	445.898	436.302	431.703	429.243
11.5	505.101	501.397	488.949	472.461	452.550	443.978	434.413	429.111	426.362
12.0	505.634	502.212	489.388	472.329	451.270	442.986	432.462	426.870	423.833
12.5	507.479	503.668	489.538	471.556	450.278	440.394	430.221	424.630	421.592
13.0	508.520	504.451	489.751	470.784	448.998	438.794	427.949	422.038	418.454
13.5	509.335	505.492	489.964	470.332	446.758	436.873	425.998	419.446	416.597
14.0	510.884	506.151	490.208	469.592	445.766	434.281	423.117	416.885	413.810
14.5	511.957	506.840	489.750	468.468	444.166	432.681	420.845	414.325	410.961
15.0	511.975	507.179	489.900	467.727	441.894	430.729	418.605	411.764	408.112
15.5	512.640	507.548	489.855	466.284	439.973	428.778	416.013	408.884	406.511
16.0	512.922	508.238	489.491	465.097	438.342	426.537	414.061	406.323	402.639
16.5	514.301	508.928	490.086	464.677	436.741	424.297	411.500	404.083	400.719
17.0	515.812	508.657	490.042	463.233	435.141	421.705	409.229	401.171	398.830
17.5	516.050	509.698	489.646	461.438	432.869	420.073	406.317	399.219	395.598
18.0	516.959	509.428	489.250	460.697	430.629	416.841	403.436	396.338	393.357
18.5	518.188	509.828	488.760	459.316	428.357	414.921	402.124	394.738	390.445
19.0	517.880	510.229	488.653	458.318	426.436	412.329	399.564	391.857	387.564
19.5	519.328	510.279	487.842	457.031	424.165	410.377	396.652	388.977	384.332
20.0	520.043	510.071	487.735	455.330	422.244	407.816	395.372	386.096	381.452
20.5	520.249	510.472	486.636	453.949	420.292	405.224	392.460	383.184	378.220
21.0	520.424	510.233	486.209	452.054	417.412	402.664	389.579	380.304	375.339
21.5	520.950	510.376	485.430	451.087	415.460	401.352	387.018	377.103	372.138
22.0	521.633	510.263	484.683	449.831	412.899	398.152	384.106	374.222	368.906
22.5	522.028	510.149	483.904	448.193	410.308	395.848	381.194	371.342	366.026
23.0	521.751	510.324	483.157	446.524	408.036	392.648	378.314	368.141	362.794
23.5	521.825	509.984	482.698	444.214	405.155	391.367	375.402	364.940	359.593
24.0	522.188	509.933	481.631	442.990	403.235	388.775	372.490	362.028	356.072
24.5	522.394	509.819	480.884	441.125	400.323	385.895	369.609	358.859	353.192
25.0	521.960	509.736	479.496	439.776	399.363	382.952	366.697	355.627	349.960
25.5	521.206	509.014	478.749	438.137	397.091	380.071	363.817	352.426	346.439
26.0	521.412	508.837	477.681	435.539	394.850	377.159	360.585	349.546	343.527
26.5	521.010	508.021	476.645	433.549	391.938	374.278	357.673	346.345	339.975

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CANDELA TABULATION - (Cont.)

27.0	520.287	507.524	475.961	431.911	389.026	371.335	354.472	343.144	336.774
27.5	520.268	507.348	474.027	430.273	386.434	368.454	351.560	339.912	333.542
28.0	520.474	506.531	472.765	427.323	383.554	365.222	348.648	336.711	330.021
28.5	519.626	505.714	471.792	425.973	380.993	362.342	345.447	333.511	326.789
29.0	518.935	505.538	470.818	423.375	377.792	359.430	342.247	329.990	323.589
29.5	518.789	504.081	469.587	420.714	374.881	356.229	339.015	326.789	320.228
30.0	518.544	503.202	468.294	419.044	371.969	352.966	336.134	323.557	316.900
30.5	517.727	502.479	467.000	416.766	369.088	350.085	332.902	320.325	313.699
31.0	517.613	501.983	465.738	414.424	366.207	346.853	329.701	317.092	310.371
31.5	516.922	501.423	463.805	413.395	363.295	343.652	326.501	313.923	307.075
32.0	515.848	500.607	462.863	410.734	360.095	340.740	323.268	310.626	303.906
32.5	516.054	499.470	461.218	409.384	357.183	337.508	320.036	307.425	300.546
33.0	514.309	499.005	459.862	407.106	354.302	334.308	316.803	304.065	297.185
33.5	514.609	497.517	458.185	404.476	351.070	331.076	313.602	300.832	293.953
34.0	514.175	496.411	456.189	402.166	347.869	327.875	310.370	297.664	290.593
34.5	513.164	495.274	454.193	399.505	344.637	324.963	307.138	294.367	287.328
35.0	511.964	494.138	452.868	396.875	341.437	321.666	303.969	291.134	284.159
35.5	511.210	493.352	451.481	394.565	338.556	318.434	300.800	287.869	280.831
36.0	510.004	491.576	449.547	391.935	335.355	315.201	297.568	284.669	277.503
36.5	509.313	490.439	448.191	389.306	331.834	311.969	294.207	281.532	274.206
37.0	508.208	489.654	445.843	386.644	328.602	308.833	291.071	278.236	270.877
37.5	507.228	487.908	443.816	384.015	325.402	305.505	287.870	274.907	267.741
38.0	506.825	486.451	442.522	381.385	322.201	302.272	284.605	271.771	264.349
38.5	504.822	485.346	439.886	378.755	318.937	298.975	281.405	268.507	260.988
39.0	503.842	484.561	438.178	375.805	315.608	295.807	278.140	265.306	257.724
39.5	502.448	482.784	438.422	373.144	312.376	292.574	275.003	262.041	254.491
40.0	502.077	481.678	436.457	370.514	309.047	289.246	271.835	258.841	251.354
40.5	500.137	480.510	434.492	367.564	305.719	286.014	268.539	255.640	248.121
41.0	498.680	478.828	432.465	364.903	302.486	282.781	265.338	252.408	244.826
41.5	497.060	477.371	430.500	362.016	299.093	279.421	262.073	249.271	241.657
42.0	496.658	476.203	428.152	359.417	295.797	276.348	258.873	246.007	238.489
42.5	495.326	474.777	426.156	356.819	292.468	273.084	255.640	242.742	235.351
43.0	493.675	472.360	424.097	354.283	289.140	269.787	252.440	239.670	232.024
43.5	492.889	471.224	422.132	351.396	285.651	266.490	249.143	236.374	228.919
44.0	491.207	469.767	419.847	348.508	282.386	263.258	245.846	233.141	225.878
44.5	489.875	468.341	417.468	345.590	278.994	260.057	242.614	229.973	222.710
45.0	488.895	467.205	415.503	342.960	275.665	256.665	239.414	226.708	219.605
45.5	486.798	465.139	413.187	340.074	272.337	253.400	236.085	223.571	216.341
46.0	486.653	463.714	410.870	337.220	268.944	250.103	232.884	220.403	213.205
46.5	484.713	462.897	408.874	334.334	265.583	246.839	229.587	217.171	210.196
47.0	483.990	462.400	406.558	331.384	262.095	243.574	226.355	214.065	207.156
47.5	482.916	461.069	404.210	328.593	258.638	240.246	223.123	210.865	203.923
48.0	481.616	459.198	401.988	325.801	255.213	236.822	219.953	207.825	200.786
48.5	479.519	457.515	399.577	322.978	251.852	233.493	216.657	204.657	197.682
49.0	478.219	455.738	397.292	320.059	248.492	230.196	213.425	201.584	194.513
49.5	476.951	453.962	394.944	317.140	245.100	226.964	210.256	198.480	191.504
50.0	477.126	452.568	392.597	314.286	241.675	223.667	207.088	195.375	188.336
50.5	474.834	450.791	390.312	311.337	238.282	220.275	203.823	192.430	185.264
51.0	474.400	449.077	388.027	308.483	234.921	217.010	200.655	189.294	182.160
51.5	472.811	447.331	385.359	305.532	231.561	213.649	197.422	186.189	179.151
52.0	471.223	445.234	382.980	302.455	228.136	210.417	194.317	183.149	176.206
52.5	469.860	443.489	380.695	299.569	224.775	207.153	191.149	180.109	173.134
53.0	468.177	441.680	378.058	296.555	221.382	203.824	187.948	177.068	170.029
53.5	466.494	439.966	375.679	293.574	218.086	200.463	184.748	174.059	166.925
54.0	464.937	438.158	373.203	290.528	214.662	197.230	181.579	170.955	164.172
54.5	463.254	436.187	370.631	287.450	211.365	194.030	178.443	167.979	161.133

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CANDELA TABULATION - (Cont.)

55.0	461.634	434.378	368.187	284.469	208.004	190.702	175.274	164.906	158.059
55.5	459.982	432.281	365.774	281.359	204.676	187.342	172.138	161.865	155.115
56.0	458.362	430.536	363.266	278.346	201.283	184.108	169.033	158.953	152.011
56.5	456.805	428.439	360.662	275.204	197.921	180.812	165.801	155.816	149.162
57.0	455.153	426.725	358.091	272.094	194.529	177.579	162.792	152.936	146.345
57.5	453.182	424.659	355.613	268.984	191.200	174.219	159.720	149.831	143.241
58.0	451.436	422.531	353.073	265.778	187.744	170.954	156.551	146.919	140.264
58.5	449.879	420.465	350.471	262.669	184.351	167.721	153.510	143.942	137.255
59.0	448.228	418.463	347.771	259.463	180.894	164.457	150.470	140.934	134.407
59.5	446.287	416.303	345.261	256.258	177.406	161.161	147.461	138.021	131.494
60.0	444.190	414.206	342.562	253.149	173.981	157.833	144.452	135.076	128.549
60.5	442.282	412.140	340.054	250.039	170.588	154.568	141.380	132.164	125.605
61.0	440.630	410.042	337.450	246.993	167.227	151.271	138.308	129.219	122.692
61.5	438.627	407.945	334.847	243.852	163.803	148.070	135.235	126.274	119.748
62.0	436.304	405.720	332.115	240.646	160.441	144.774	132.290	123.330	116.931
62.5	434.333	403.526	329.542	237.505	156.985	141.542	129.218	120.354	113.954
63.0	432.361	401.428	326.971	234.364	153.656	138.213	126.146	117.441	111.106
63.5	430.390	399.107	324.368	231.222	150.263	134.916	123.136	114.560	108.161
64.0	428.450	396.850	321.636	228.080	146.870	131.780	120.096	111.583	105.409
64.5	426.158	394.625	319.065	224.939	143.510	128.515	116.991	108.671	102.752
65.0	423.963	392.400	316.238	221.670	140.118	125.314	113.886	105.790	99.775
65.5	421.737	390.047	313.633	218.432	136.693	122.049	110.910	102.877	96.959
66.0	419.574	387.629	310.997	215.292	133.363	118.785	107.805	100.029	94.206
66.5	417.537	385.309	308.203	212.118	130.035	115.521	104.829	97.084	91.453
67.0	415.245	382.987	305.599	208.945	126.706	112.320	101.916	94.267	88.797
67.5	413.019	380.666	302.803	205.676	123.377	109.183	98.939	91.419	86.012
68.0	410.823	378.250	300.072	202.439	119.888	106.079	95.931	88.602	83.164
68.5	408.499	375.832	297.373	199.234	116.528	102.814	92.922	85.786	80.347
69.0	406.465	373.448	294.545	196.093	113.231	99.709	89.946	82.969	77.754
69.5	404.174	371.127	291.910	192.984	109.934	96.509	87.129	80.216	75.066
70.0	402.009	368.709	289.083	189.875	106.606	93.404	84.217	77.464	72.377
70.5	399.781	366.261	286.351	186.733	103.310	90.236	81.336	74.647	69.593
71.0	397.617	363.843	283.588	183.498	99.980	87.163	78.455	71.991	66.904
71.5	395.421	361.425	280.698	180.389	96.843	84.091	75.639	69.334	64.248
72.0	393.036	358.850	277.999	177.376	93.578	81.018	72.822	66.677	61.814
72.5	390.775	356.496	275.235	174.299	90.090	77.977	70.037	64.117	59.094
73.0	388.422	354.016	272.536	171.318	86.953	75.001	67.317	61.428	56.533
73.5	386.130	351.471	269.806	168.241	83.721	72.120	64.564	58.804	53.909
74.0	383.870	349.022	266.980	165.165	80.551	69.207	61.844	56.307	51.413
74.5	381.421	346.448	264.248	162.121	77.479	66.327	59.187	53.778	49.076
75.0	379.097	343.999	261.392	159.171	74.374	63.446	56.563	51.282	46.548
75.5	376.711	341.454	258.662	156.096	71.333	60.629	53.937	48.722	44.147
76.0	374.293	339.006	256.059	153.084	68.292	57.877	51.281	46.321	41.810
76.5	371.872	336.430	253.266	150.229	65.251	55.156	48.657	43.824	39.506
77.0	369.423	334.015	250.536	147.186	62.306	52.436	46.224	41.488	37.361
77.5	366.972	331.472	247.807	144.364	59.297	49.747	43.696	39.119	35.121
78.0	364.587	329.024	245.172	141.480	56.481	47.058	41.231	36.847	32.944
78.5	362.008	326.482	242.569	138.754	53.632	44.434	38.799	34.606	30.768
79.0	359.591	323.876	239.904	135.871	50.879	41.905	36.398	32.365	28.559
79.5	357.141	321.429	237.301	133.083	48.094	39.409	34.061	30.125	26.543
80.0	354.629	318.950	234.669	130.327	45.341	36.976	31.789	28.012	24.494
80.5	352.116	316.441	232.035	127.730	42.684	34.543	29.548	25.900	22.510
81.0	349.763	314.026	229.593	125.134	40.123	32.175	27.372	23.851	20.461
81.5	347.345	311.419	227.057	122.538	37.627	29.901	25.226	21.835	18.477
82.0	344.896	309.005	224.615	119.942	35.162	27.661	23.083	19.851	16.621
82.5	342.701	306.815	222.207	117.441	32.698	25.517	21.098	18.026	14.860

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CANDELA TABULATION - (Cont.)

83.0	340.317	304.464	219.734	115.100	30.329	23.340	19.113	16.169	13.036
83.5	338.061	302.081	217.326	112.791	28.057	21.227	17.225	14.345	11.275
84.0	335.867	299.826	215.046	110.484	25.848	19.210	15.368	12.584	9.546
84.5	333.609	297.509	212.734	108.176	23.672	17.258	13.480	10.824	7.947
85.0	331.480	295.159	210.454	105.997	21.559	15.370	11.688	9.192	6.506
85.5	329.382	293.000	208.078	103.817	19.479	13.481	9.958	7.623	5.225
86.0	327.285	290.935	205.798	101.733	17.462	11.657	8.294	6.215	4.297
86.5	325.344	289.058	203.741	99.649	15.510	9.896	6.694	5.126	3.656
87.0	323.560	287.748	201.713	97.725	13.654	8.167	5.285	4.262	3.240
87.5	322.278	286.751	200.189	95.737	11.797	6.502	4.293	3.717	2.984
88.0	321.657	286.289	199.103	93.781	9.909	4.870	3.588	3.333	2.854
88.5	321.189	285.951	198.424	92.075	8.020	3.526	3.204	3.045	2.695
89.0	320.912	285.866	198.251	90.903	6.099	2.886	2.980	2.948	2.662
89.5	320.856	285.813	198.108	90.514	4.466	2.661	2.884	2.852	2.630
90.0	320.893	285.791	198.125	90.537	3.819	2.597	2.851	2.852	2.662
90.5	320.646	285.865	198.143	90.719	4.537	2.596	2.850	2.851	2.629
91.0	320.780	286.100	198.382	91.571	6.104	2.627	2.818	2.882	2.629
91.5	320.851	286.525	198.910	93.064	7.985	3.128	2.850	2.850	2.597
92.0	321.241	287.206	200.108	94.845	9.803	4.037	2.944	2.818	2.660
92.5	321.662	288.364	201.753	96.627	11.558	5.510	3.194	2.912	2.722
93.0	322.531	289.812	203.717	98.693	13.313	7.234	3.821	3.038	2.942
93.5	323.656	291.642	205.808	100.537	15.131	8.959	4.887	3.382	3.443
94.0	325.324	293.727	207.962	102.634	17.043	10.714	6.329	4.072	4.415
94.5	327.343	295.845	209.987	104.699	18.987	12.406	7.990	5.169	5.763
95.0	329.458	298.120	212.363	106.762	20.993	14.256	9.682	6.485	7.267
95.5	331.572	300.426	214.642	108.921	23.062	16.137	11.438	8.084	8.992
96.0	333.782	302.574	216.888	111.143	25.194	18.018	13.319	9.809	10.685
96.5	335.928	304.784	219.199	113.459	27.387	19.992	15.169	11.532	12.503
97.0	338.105	307.027	221.509	115.806	29.644	21.967	17.081	13.351	14.352
97.5	340.346	309.331	223.851	118.153	31.996	24.068	19.025	15.264	16.171
98.0	342.521	311.636	226.194	120.656	34.315	26.199	20.968	17.113	18.020
98.5	344.824	314.003	228.662	123.191	36.792	28.394	23.005	19.056	20.026
99.0	347.094	316.403	231.130	125.694	39.363	30.745	25.106	21.031	22.033
99.5	349.366	318.738	233.629	128.323	41.933	33.065	27.269	23.101	24.134
100.0	351.636	321.136	236.191	130.982	44.566	35.510	29.432	25.170	26.139
100.5	353.906	323.566	238.720	133.642	47.262	37.955	31.689	27.238	28.271
101.0	356.303	325.932	241.314	136.396	50.021	40.400	34.040	29.370	30.371
101.5	358.510	328.297	243.874	139.119	52.811	43.034	36.360	31.533	32.597
102.0	360.906	330.760	246.560	141.904	55.663	45.478	38.774	33.759	34.886
102.5	363.207	333.126	249.151	144.658	58.516	48.237	41.188	36.047	37.143
103.0	365.573	335.554	251.774	147.443	61.495	51.497	43.664	38.336	39.463
103.5	367.936	337.952	254.428	150.291	64.504	54.193	46.172	40.687	41.751
104.0	370.303	340.349	257.114	153.201	67.451	56.481	48.680	43.070	44.197
104.5	372.602	342.873	259.767	156.049	70.460	59.366	51.313	45.514	46.642
105.0	375.030	345.239	262.389	158.896	73.595	62.124	53.916	47.992	49.118
105.5	377.111	347.668	265.105	161.807	76.699	65.040	56.548	50.468	51.595
106.0	379.506	350.097	267.727	164.748	79.833	68.300	59.245	52.976	54.135
106.5	381.744	352.430	270.349	167.722	83.063	71.686	61.972	55.516	56.642
107.0	384.077	354.828	273.003	170.601	86.229	74.162	64.668	58.117	59.370
107.5	386.409	357.256	275.625	173.574	89.458	76.827	67.489	60.688	61.909
108.0	388.647	359.621	278.342	176.610	92.687	79.836	70.248	63.447	64.573
108.5	390.853	361.987	281.027	179.646	95.979	82.909	73.038	66.079	67.207
109.0	393.217	364.258	283.681	182.650	99.239	85.949	75.922	68.839	69.903
109.5	395.392	366.783	286.334	185.623	102.499	89.022	78.775	71.503	72.568
110.0	397.661	368.990	288.925	188.721	105.822	92.125	81.597	74.262	75.359
110.5	399.868	371.356	291.421	191.757	109.145	95.229	84.512	77.021	78.086

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CANDELA TABULATION - (Cont.)

111.0	402.106	373.565	294.042	194.793	112.499	98.364	87.428	79.811	80.876
111.5	404.282	375.868	296.697	197.892	115.854	101.499	90.312	82.633	83.540
112.0	406.363	378.172	299.287	200.959	119.208	104.665	93.290	85.454	86.236
112.5	408.601	380.444	301.941	204.088	122.657	107.894	96.299	88.244	88.995
113.0	410.618	382.715	304.563	207.155	125.980	111.123	99.246	91.034	91.816
113.5	412.825	384.956	307.153	210.348	129.334	114.384	102.287	93.918	94.700
114.0	414.936	387.101	309.743	213.415	132.782	117.581	105.391	96.771	97.522
114.5	417.017	389.309	312.333	216.513	136.105	120.873	109.089	99.718	100.343
115.0	418.972	391.550	314.924	219.643	139.492	124.134	113.039	102.633	103.228
115.5	420.960	393.759	317.483	222.742	142.908	127.456	115.860	105.486	106.018
116.0	423.102	395.810	320.106	225.840	146.325	130.717	117.805	108.401	109.058
116.5	425.027	398.020	322.569	228.939	149.680	133.977	120.500	111.317	111.911
117.0	427.170	400.229	325.223	232.068	153.097	137.362	124.075	114.295	114.890
117.5	429.063	402.249	327.718	235.135	156.577	140.592	128.087	117.148	117.710
118.0	430.956	404.425	330.246	238.265	159.900	143.978	131.284	120.158	120.658
118.5	432.753	406.446	332.899	241.331	163.348	147.301	133.480	123.010	123.573
119.0	434.678	408.403	335.364	244.462	166.766	150.561	135.925	126.082	126.583
119.5	436.604	410.674	337.891	247.528	170.183	153.790	138.934	129.029	129.404
120.0	438.433	412.727	340.387	250.564	173.663	157.082	142.007	132.039	132.539
120.5	440.294	414.716	342.883	253.537	177.049	160.437	145.110	135.017	135.423
121.0	442.155	416.674	345.411	256.635	180.340	163.697	148.182	138.058	138.371
121.5	444.048	418.727	347.844	259.638	183.788	166.926	151.254	141.663	141.318
122.0	445.596	420.716	350.341	262.737	187.205	170.187	154.452	145.770	144.327
122.5	447.521	422.328	352.742	265.741	190.560	173.415	157.525	149.281	147.368
123.0	449.414	424.381	355.207	268.745	193.946	176.739	160.660	151.601	150.377
123.5	451.307	426.306	357.704	271.718	197.363	179.968	163.795	154.391	153.481
124.0	452.887	428.014	360.199	274.690	200.686	183.259	166.962	158.028	157.651
124.5	454.780	429.971	362.600	277.726	204.103	186.583	170.096	161.100	163.075
125.0	456.424	431.992	365.097	280.729	207.426	189.749	173.294	163.169	166.554
125.5	457.971	433.667	367.561	283.734	210.843	193.041	176.429	165.364	168.184
126.0	459.832	435.657	369.870	286.612	214.166	196.301	179.596	168.279	168.749
126.5	461.380	437.396	372.333	289.554	217.489	199.499	182.699	171.289	171.382
127.0	463.024	439.385	374.955	292.495	220.875	202.822	185.834	174.330	174.391
127.5	464.635	441.061	377.200	295.343	224.229	206.051	189.001	177.340	177.433
128.0	466.183	442.769	379.382	298.315	227.521	209.374	192.199	180.381	180.536
128.5	467.795	444.758	381.972	301.256	230.939	212.697	195.239	183.453	183.577
129.0	469.406	446.466	384.218	304.135	234.324	215.926	198.531	186.588	186.680
129.5	469.386	448.141	386.463	307.045	237.678	219.186	201.760	189.629	189.784
130.0	471.030	449.817	389.053	309.955	241.001	222.447	204.958	192.670	192.888
130.5	472.015	451.493	391.267	312.897	244.325	225.770	208.156	195.711	196.023
131.0	473.562	452.823	393.512	315.743	247.710	229.030	211.259	198.783	199.095
131.5	473.952	454.281	395.757	318.622	251.127	232.259	214.425	201.918	202.199
132.0	476.408	455.643	398.002	321.470	254.482	235.488	217.686	205.022	205.396
132.5	478.052	456.973	400.248	324.317	257.899	238.780	220.852	208.125	208.499
133.0	478.755	458.118	402.493	327.102	261.285	242.009	224.143	211.166	211.604
133.5	480.303	459.167	404.738	329.980	264.577	245.301	227.309	214.677	214.708
134.0	482.541	461.188	406.951	332.891	267.900	248.593	230.570	217.750	217.906
134.5	483.213	462.550	408.883	335.737	271.254	251.790	233.799	220.885	220.977
135.0	484.792	464.571	411.128	338.648	274.608	255.145	236.965	224.051	224.270
135.5	486.749	465.588	413.373	341.181	277.963	258.436	240.226	227.249	227.310
136.0	487.389	466.982	415.522	344.092	281.286	261.728	243.392	230.290	230.508
136.5	489.595	468.376	417.518	346.907	284.578	264.894	246.590	233.456	233.548
137.0	489.639	470.020	419.418	349.786	287.933	268.217	249.819	236.560	236.873
137.5	491.469	471.728	421.695	352.383	291.194	271.542	252.922	239.663	240.007
138.0	492.140	472.776	422.904	355.166	294.483	274.737	256.086	242.765	242.949
138.5	494.065	474.798	424.554	357.731	297.650	277.966	259.317	246.058	246.306

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CANDELA TABULATION - (Cont.)

139.0	495.146	475.565	426.799	360.578	300.910	281.101	262.483	249.162	249.504
139.5	496.034	476.895	428.386	363.079	304.203	284.393	265.650	252.329	252.671
140.0	497.019	478.321	430.349	365.612	307.432	287.528	268.722	255.432	255.806
140.5	498.663	479.747	431.341	368.427	310.693	290.789	271.983	258.693	259.192
141.0	499.615	481.110	432.959	370.928	314.016	293.956	275.211	262.016	262.515
141.5	500.914	481.595	435.204	373.743	317.308	297.153	278.378	265.276	265.744
142.0	501.649	483.335	436.790	376.276	320.443	300.351	281.543	268.536	269.004
142.5	502.633	484.697	438.754	378.777	323.578	303.485	284.678	271.640	272.265
143.0	504.181	485.714	440.340	381.343	326.712	306.683	287.813	274.774	275.493
143.5	505.511	486.481	441.958	383.908	330.161	309.943	291.073	278.097	278.754
144.0	504.929	487.594	443.890	386.473	333.327	313.141	294.207	281.357	282.014
144.5	506.636	489.020	445.508	389.007	336.494	316.150	297.405	284.586	285.274
145.0	508.216	490.101	446.813	391.290	339.629	319.285	300.540	287.721	288.660
145.5	508.292	491.182	449.058	393.856	342.764	322.452	303.674	290.949	291.795
146.0	509.245	491.885	450.331	396.139	345.617	325.586	306.746	294.084	295.024
146.5	510.985	493.311	451.981	397.764	348.752	328.721	309.850	297.281	298.253
147.0	511.688	494.014	453.568	400.016	351.887	331.856	313.079	300.447	301.512
147.5	513.018	495.472	454.904	401.673	354.740	335.055	316.182	303.644	304.647
148.0	513.030	495.613	456.523	403.611	357.875	338.158	319.317	306.842	307.939
148.5	513.138	496.380	457.514	406.177	360.728	340.979	322.484	310.039	311.137
149.0	514.091	497.806	459.132	408.428	363.895	343.832	325.586	313.173	314.397
149.5	514.577	497.319	460.123	410.085	366.717	346.999	328.721	316.214	317.532
150.0	514.871	498.682	461.742	412.682	369.538	350.134	331.856	319.349	320.980
150.5	515.887	499.449	463.705	414.653	372.359	352.987	334.991	322.797	324.115
151.0	515.932	500.216	464.102	416.937	375.213	355.809	337.844	325.900	327.531
151.5	516.980	500.388	466.033	418.875	378.066	358.944	340.979	329.067	330.698
152.0	517.056	500.874	466.743	421.159	380.919	361.797	344.114	332.170	334.114
152.5	516.787	501.641	468.080	422.816	383.741	364.618	347.281	335.304	337.281
153.0	516.864	501.782	469.417	425.099	386.280	367.472	350.070	338.126	340.416
153.5	517.880	502.581	470.408	427.070	387.880	370.293	353.237	341.574	343.551
154.0	517.330	503.067	471.118	429.353	391.015	373.460	356.058	344.677	347.031
154.5	518.033	503.239	471.764	431.010	393.209	375.968	359.193	347.812	350.198
155.0	518.704	503.693	473.036	432.667	395.122	378.853	362.046	350.633	353.301
155.5	518.499	503.583	473.932	434.669	397.348	381.642	365.181	353.768	356.468
156.0	517.603	504.069	474.514	436.294	400.170	384.528	368.034	356.903	359.570
156.5	518.306	504.587	475.159	438.297	402.396	386.095	370.856	360.005	362.392
157.0	518.631	504.414	476.119	439.985	404.936	388.948	373.677	362.827	365.559
157.5	517.191	504.618	476.764	441.297	407.130	391.456	376.844	365.962	368.693
158.0	517.286	503.882	477.506	442.954	409.357	393.964	379.665	369.096	371.828
158.5	516.447	504.086	477.935	444.329	411.864	395.877	382.173	371.918	374.650
159.0	515.583	504.290	478.676	445.986	414.091	398.385	384.054	374.739	377.784
159.5	516.415	504.463	479.105	447.675	415.972	401.206	387.848	377.874	380.606
160.0	515.390	504.289	479.565	449.018	418.512	403.432	389.415	380.695	383.741
160.5	514.654	504.084	480.339	450.080	420.424	405.972	392.269	383.516	386.594
161.0	514.916	504.129	480.799	451.455	421.992	408.167	394.463	385.711	389.697
161.5	514.308	502.983	481.541	452.799	424.500	410.675	396.376	388.532	392.205
162.0	513.892	502.496	480.779	454.174	426.067	412.901	399.197	391.354	393.394
162.5	512.714	501.728	481.867	454.609	428.607	415.441	401.392	393.548	396.152
163.0	512.381	502.246	481.732	456.298	430.206	417.949	404.558	395.742	398.564
163.5	511.798	501.228	481.911	457.014	432.401	419.861	406.753	398.564	401.353
164.0	511.970	501.215	482.371	458.076	433.968	421.742	408.947	401.071	403.829
164.5	510.953	500.229	482.237	458.792	435.881	423.937	411.800	403.925	407.213
165.0	509.967	500.184	482.416	459.854	437.762	426.445	414.308	406.119	409.721
165.5	508.354	498.572	482.313	460.884	439.675	428.044	416.189	408.314	411.915
166.0	508.341	497.963	482.146	461.946	441.242	429.925	418.416	411.135	414.986
166.5	507.637	497.323	482.357	463.008	442.496	432.151	420.891	413.643	417.807

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167.0	506.869	496.683	481.941	462.848	444.096	433.719	423.431	415.869	420.315
167.5	505.506	495.480	481.838	463.628	445.381	435.600	424.999	418.722	422.510
168.0	503.330	494.558	481.736	464.409	446.949	437.512	427.538	421.230	425.049
168.5	503.004	493.822	481.633	465.221	448.516	439.393	430.078	423.770	427.525
169.0	501.110	492.741	480.904	464.748	450.116	441.274	431.614	425.651	429.688
169.5	500.156	491.570	480.801	465.810	451.024	442.528	434.122	428.472	431.537
170.0	499.202	490.366	480.385	465.995	451.965	444.441	436.034	430.353	434.044
170.5	498.281	489.822	479.374	466.494	452.937	446.008	437.634	432.580	436.271
171.0	496.355	488.683	479.617	466.711	453.564	447.576	439.233	434.774	438.184
171.5	494.838	487.544	478.260	466.929	455.163	448.548	441.146	437.032	440.692
172.0	494.012	486.124	478.222	467.428	456.449	450.116	443.027	438.286	442.508
172.5	492.528	484.735	477.211	467.332	457.358	451.683	444.908	440.794	444.984
173.0	490.448	483.596	476.264	467.268	458.017	453.251	446.789	442.675	446.206
173.5	489.341	482.176	475.976	467.831	458.612	453.877	448.356	444.242	448.433
174.0	488.170	481.068	474.715	467.767	458.925	455.445	449.610	446.155	450.595
174.5	486.340	479.053	473.832	467.703	459.898	457.012	451.146	448.036	451.535
175.0	484.510	477.664	472.949	467.044	460.838	457.953	452.400	449.572	453.384
175.5	482.712	476.340	472.098	467.671	461.433	458.548	453.999	451.171	454.638
176.0	482.232	475.047	471.279	467.639	462.092	459.834	455.534	452.770	457.178
176.5	479.622	473.192	470.492	467.357	462.373	460.461	457.447	454.370	458.150
177.0	478.265	472.027	469.142	467.357	462.438	461.401	457.761	455.905	459.718
177.5	476.250	470.268	468.765	466.730	463.032	461.715	459.328	457.159	460.626
178.0	474.362	469.199	468.106	466.730	463.346	462.655	460.237	459.072	463.166
178.5	472.353	467.255	467.165	466.417	463.346	463.595	461.177	460.294	464.702
179.0	471.003	466.596	465.911	466.417	463.659	463.909	462.776	461.548	465.329
179.5	469.717	465.374	465.284	465.790	463.659	464.536	463.403	462.520	467.868
180.0	464.843	464.843	464.843	464.843	464.843	464.843	464.843	464.843	464.843

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-930U-L19-930D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	172.58	N.A.	5.50
0-30	366.61	N.A.	11.70
0-40	601.38	N.A.	19.20
0-60	1089.23	N.A.	34.70
0-80	1458.8	N.A.	46.50
0-90	1574.9	N.A.	50.20
10-90	1530.31	N.A.	48.80
20-40	428.79	N.A.	13.70
20-50	677.72	N.A.	21.60
40-70	695.57	N.A.	22.20
60-80	369.57	N.A.	11.80
70-80	161.86	N.A.	5.20
80-90	116.09	N.A.	3.70
90-110	276.90	N.A.	8.80
90-120	483.16	N.A.	15.40
90-130	720.40	N.A.	23.00
90-150	1200.07	N.A.	38.20
90-180	1562.61	N.A.	49.80
110-180	1285.71	N.A.	41.00
0-180	3137.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.58
10-20	128.00
20-30	194.03
30-40	234.77
40-50	248.93
50-60	238.93
60-70	207.71
70-80	161.86
80-90	116.09
90-100	115.92
100-110	160.98
110-120	206.25
120-130	237.24
130-140	247.02
140-150	232.65
150-160	191.96
160-170	126.50
170-180	44.08

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-930U-L19-930D-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-L19-930U-L19-930D-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	18.7	19.6	19.7	20.6	21.9	12.8	13.7	13.7	14.7	15.9
	3H	21.8	22.6	22.8	23.6	24.9	14.1	15.0	15.1	15.9	17.2
	4H	23.4	24.2	24.4	25.2	26.4	14.6	15.3	15.5	16.3	17.6
	6H	25.1	25.8	26.0	26.8	28.1	14.8	15.5	15.8	16.5	17.8
	8H	25.9	26.6	26.9	27.6	29.0	14.9	15.5	15.8	16.6	17.9
	12H	26.9	27.6	27.9	28.6	29.9	14.9	15.5	15.9	16.5	17.9

UGR Viewed Endwise

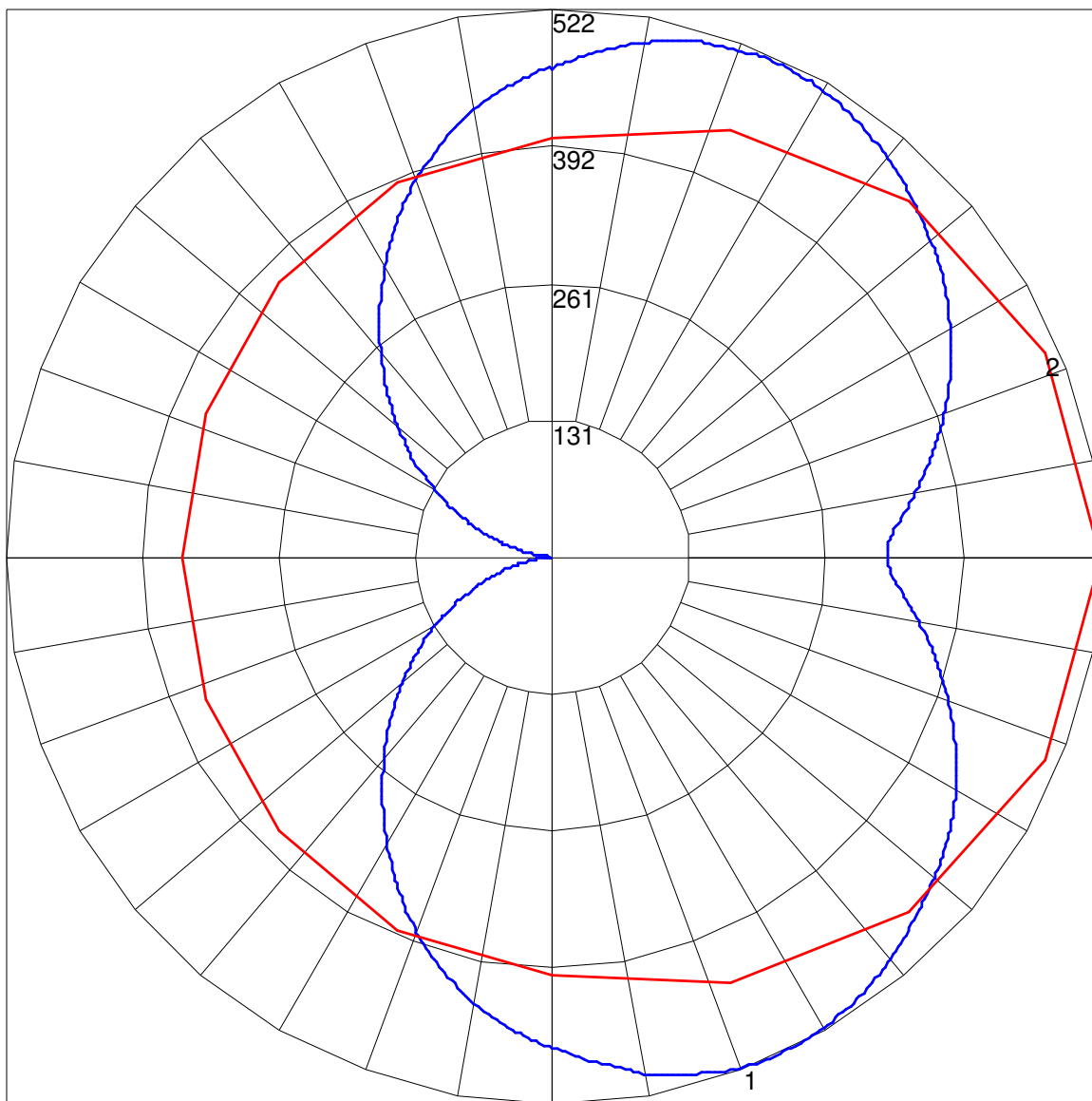
4H	2H	19.0	19.8	20.0	20.8	22.1	14.0	14.8	15.0	15.8	17.1
	3H	22.3	23.0	23.3	24.0	25.3	15.7	16.3	16.6	17.3	18.6
	4H	24.1	24.7	25.1	25.7	27.0	16.2	16.8	17.2	17.8	19.2
	6H	26.0	26.5	27.0	27.5	28.8	16.6	17.1	17.6	18.2	19.5
	8H	26.9	27.4	28.0	28.5	29.8	16.7	17.2	17.7	18.2	19.6
	12H	28.0	28.5	29.1	29.5	30.9	16.7	17.2	17.8	18.2	19.6

8H	4H	24.2	24.7	25.2	25.7	27.1	17.3	17.8	18.3	18.8	20.2
	6H	26.3	26.7	27.3	27.7	29.1	18.0	18.4	19.0	19.4	20.8
	8H	27.4	27.8	28.4	28.8	30.2	18.2	18.6	19.2	19.6	21.0
	12H	28.7	29.0	29.7	30.1	31.5	18.3	18.6	19.3	19.7	21.1

12H	4H	24.2	24.6	25.2	25.7	27.0	17.7	18.1	18.7	19.2	20.5
	6H	26.3	26.6	27.3	27.7	29.1	18.5	18.9	19.5	19.9	21.3
	8H	27.5	27.8	28.5	28.8	30.2	18.8	19.1	19.8	20.2	21.6

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 522.394 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.)