

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-927U-L19-927D-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-L19-927U-L19-927D-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	3061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	8427	7938	7567
55	8378	7585	6911
65	8392	7310	6131
75	8538	7130	4986
85	8975	7269	3303

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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	458.099	458.099	458.099	458.099	458.099	458.099	458.099	458.099	458.099
0.5	458.743	459.508	458.656	460.401	457.278	459.654	456.569	456.544	456.588
1.0	459.992	460.597	460.340	460.774	456.997	458.968	455.258	455.234	455.308
1.5	461.645	462.061	460.836	461.772	456.997	457.689	454.573	453.642	453.122
2.0	463.047	463.866	461.956	461.864	456.654	456.721	453.324	452.363	451.843
2.5	465.074	465.109	463.450	462.268	456.342	456.097	452.075	451.426	450.624
3.0	466.414	466.976	464.631	462.360	456.029	455.472	451.138	449.552	449.032
3.5	468.190	468.623	465.500	463.419	456.029	454.193	449.576	448.273	448.096
4.0	470.529	470.270	466.994	463.511	455.374	452.944	448.952	446.711	445.910
4.5	471.588	471.635	468.175	463.321	455.062	452.631	447.391	445.150	444.006
5.0	472.175	473.342	469.198	464.349	454.437	451.070	445.517	443.558	442.163
5.5	474.355	474.738	469.534	464.472	453.501	449.509	444.580	441.997	441.226
6.0	475.818	475.852	470.434	464.282	452.846	449.166	443.331	440.717	439.322
6.5	476.999	477.964	471.364	464.122	452.252	447.948	441.709	438.501	437.479
7.0	478.181	479.298	471.982	464.184	451.909	446.950	440.147	436.597	435.262
7.5	479.386	480.412	472.631	464.055	450.317	445.388	438.274	435.035	433.076
8.0	481.706	481.213	473.433	463.240	449.380	443.827	436.712	433.131	430.891
8.5	483.761	482.388	474.234	463.706	449.068	442.890	435.121	431.258	428.735
9.0	486.570	483.625	474.944	463.203	447.507	441.298	433.216	428.729	426.549
9.5	487.959	484.701	475.372	463.356	446.539	439.425	431.343	426.825	425.925
10.0	489.508	486.372	475.770	462.915	445.602	438.145	429.782	424.951	422.490
10.5	491.026	487.357	476.480	462.444	444.041	436.614	427.877	422.735	420.959
11.0	491.950	488.061	476.908	461.690	443.386	435.022	425.661	421.173	418.773
11.5	492.782	489.168	477.024	460.937	441.512	433.149	423.818	418.645	415.963
12.0	493.302	489.963	477.452	460.808	440.263	432.181	421.914	416.459	413.496
12.5	495.101	491.383	477.598	460.055	439.296	429.653	419.728	414.273	411.310
13.0	496.117	492.148	477.806	459.302	438.047	428.091	417.512	411.744	408.248
13.5	496.912	493.163	478.014	458.861	435.861	426.218	415.607	409.216	406.436
14.0	498.423	493.806	478.252	458.138	434.894	423.689	412.797	406.718	403.717
14.5	499.470	494.478	477.804	457.042	433.332	422.128	410.581	404.219	400.937
15.0	499.487	494.808	477.951	456.319	431.116	420.224	408.395	401.721	398.158
15.5	500.136	495.169	477.907	454.911	429.242	418.320	405.866	398.911	396.596
16.0	500.411	495.842	477.552	453.754	427.650	416.134	403.962	396.413	392.819
16.5	501.757	496.515	478.133	453.343	426.089	413.948	401.464	394.227	390.945
17.0	503.232	496.251	478.089	451.935	424.528	411.419	399.247	391.386	389.102
17.5	503.463	497.266	477.703	450.183	422.311	409.827	396.406	389.482	385.949
18.0	504.350	497.002	477.317	449.461	420.126	406.674	393.596	386.672	383.763
18.5	505.549	497.394	476.839	448.114	417.909	404.801	392.316	385.110	380.922
19.0	505.248	497.785	476.734	447.140	416.036	402.272	389.818	382.300	378.112
19.5	506.662	497.833	475.944	445.884	413.819	400.368	386.977	379.490	374.958
20.0	507.359	497.630	475.839	444.225	411.946	397.870	385.728	376.679	372.148
20.5	507.560	498.021	474.767	442.878	410.041	395.341	382.887	373.838	368.995
21.0	507.731	497.788	474.350	441.028	407.231	392.843	380.077	371.028	366.185
21.5	508.244	497.928	473.591	440.085	405.327	391.563	377.579	367.905	363.062
22.0	508.911	497.817	472.862	438.860	402.829	388.441	374.738	365.095	359.909
22.5	509.295	497.706	472.102	437.262	400.300	386.194	371.897	362.284	357.098
23.0	509.025	497.877	471.373	435.633	398.084	383.071	369.087	359.162	353.945
23.5	509.097	497.545	470.925	433.379	395.273	381.822	366.246	356.039	350.822
24.0	509.452	497.495	469.884	432.185	393.400	379.293	363.405	353.198	347.388
24.5	509.653	497.384	469.155	430.366	390.559	376.483	360.594	350.106	344.577
25.0	509.229	497.304	467.801	429.050	389.622	373.611	357.753	346.953	341.424
25.5	508.494	496.599	467.072	427.451	387.406	370.801	354.943	343.830	337.989
26.0	508.695	496.427	466.031	424.916	385.220	367.960	351.790	341.020	335.148
26.5	508.302	495.630	465.020	422.975	382.379	365.150	348.949	337.897	331.683

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CANDELA TABULATION - (Cont.)

27.0	507.597	495.145	464.352	421.377	379.538	362.278	345.826	334.775	328.560
27.5	507.578	494.973	462.465	419.778	377.009	359.468	342.985	331.622	325.407
28.0	507.779	494.177	461.234	416.900	374.199	356.314	340.144	328.499	321.972
28.5	506.952	493.380	460.284	415.584	371.701	353.504	337.022	325.376	318.819
29.0	506.278	493.208	459.335	413.049	368.578	350.663	333.899	321.941	315.696
29.5	506.136	491.786	458.134	410.452	365.737	347.541	330.746	318.819	312.417
30.0	505.896	490.928	456.872	408.823	362.896	344.357	327.936	315.666	309.171
30.5	505.100	490.224	455.610	406.601	360.086	341.546	324.782	312.512	306.048
31.0	504.988	489.739	454.379	404.316	357.275	338.393	321.660	309.358	302.801
31.5	504.314	489.193	452.492	403.312	354.434	335.271	318.537	306.266	299.585
32.0	503.266	488.397	451.573	400.716	351.312	332.430	315.384	303.050	296.493
32.5	503.468	487.288	449.969	399.399	348.471	329.276	312.230	299.927	293.216
33.0	501.765	486.834	448.646	397.176	345.661	326.154	309.076	296.649	289.937
33.5	502.058	485.382	447.010	394.611	342.507	323.001	305.954	293.495	286.783
34.0	501.634	484.304	445.063	392.357	339.385	319.878	302.800	290.404	283.505
34.5	500.648	483.195	443.115	389.761	336.231	317.037	299.646	287.187	280.320
35.0	499.477	482.086	441.823	387.195	333.109	313.821	296.555	284.033	277.229
35.5	498.742	481.319	440.469	384.942	330.298	310.667	293.464	280.848	273.981
36.0	497.565	479.586	438.582	382.376	327.176	307.514	290.310	277.726	270.734
36.5	496.891	478.477	437.259	379.810	323.741	304.360	287.032	274.665	267.518
37.0	495.813	477.711	434.969	377.214	320.588	301.300	283.972	271.450	264.270
37.5	494.856	476.008	432.991	374.648	317.465	298.053	280.849	268.202	261.211
38.0	494.464	474.587	431.729	372.083	314.342	294.899	277.664	265.142	257.901
38.5	492.510	473.508	429.157	369.517	311.158	291.683	274.541	261.958	254.623
39.0	491.554	472.742	427.491	366.639	307.911	288.592	271.356	258.835	251.438
39.5	490.194	471.009	427.729	364.043	304.757	285.439	268.296	255.650	248.284
40.0	489.831	469.930	425.812	361.477	301.509	282.191	265.205	252.528	245.224
40.5	487.939	468.791	423.895	358.599	298.262	279.038	261.989	249.405	242.070
41.0	486.517	467.149	421.917	356.003	295.108	275.884	258.866	246.251	238.855
41.5	484.937	465.728	420.000	353.186	291.798	272.606	255.681	243.191	235.763
42.0	484.544	464.588	417.709	350.651	288.582	269.607	252.559	240.007	232.672
42.5	483.245	463.197	415.762	348.116	285.335	266.423	249.405	236.822	229.611
43.0	481.634	460.839	413.753	345.642	282.088	263.207	246.283	233.824	226.365
43.5	480.868	459.730	411.836	342.825	278.684	259.990	243.066	230.608	223.335
44.0	479.226	458.309	409.607	340.008	275.499	256.837	239.850	227.455	220.369
44.5	477.927	456.918	407.286	337.161	272.189	253.715	236.697	224.364	217.278
45.0	476.971	455.809	405.369	334.595	268.941	250.405	233.574	221.179	214.249
45.5	474.925	453.794	403.109	331.780	265.695	247.219	230.327	218.119	211.065
46.0	474.784	452.404	400.849	328.995	262.385	244.003	227.204	215.027	208.004
46.5	472.891	451.607	398.901	326.179	259.105	240.819	223.988	211.874	205.069
47.0	472.186	451.122	396.642	323.301	255.702	237.634	220.834	208.844	202.103
47.5	471.138	449.823	394.351	320.578	252.330	234.386	217.681	205.722	198.949
48.0	469.870	447.998	392.183	317.855	248.988	231.046	214.589	202.756	195.889
48.5	467.824	446.356	389.831	315.101	245.710	227.798	211.373	199.665	192.860
49.0	466.556	444.623	387.602	312.253	242.432	224.582	208.219	196.667	189.769
49.5	465.318	442.889	385.312	309.405	239.122	221.428	205.128	193.639	186.834
50.0	465.488	441.529	383.021	306.620	235.780	218.212	202.037	190.610	183.742
50.5	463.253	439.796	380.792	303.743	232.470	214.902	198.852	187.737	180.745
51.0	462.829	438.123	378.563	300.959	229.192	211.717	195.761	184.677	177.717
51.5	461.279	436.421	375.960	298.080	225.913	208.438	192.607	181.648	174.782
52.0	459.729	434.375	373.639	295.078	222.572	205.285	189.578	178.682	171.909
52.5	458.400	432.672	371.410	292.262	219.293	202.100	186.487	175.716	168.911
53.0	456.758	430.908	368.837	289.322	215.983	198.853	183.364	172.749	165.882
53.5	455.116	429.235	366.516	286.414	212.767	195.574	180.242	169.814	162.854
54.0	453.597	427.471	364.100	283.442	209.426	192.420	177.150	166.785	160.168
54.5	451.955	425.548	361.591	280.439	206.210	189.297	174.091	163.882	157.202

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CANDELA TABULATION - (Cont.)

55.0	450.375	423.784	359.207	277.530	202.931	186.050	170.999	160.884	154.204
55.5	448.763	421.738	356.852	274.496	199.683	182.772	167.940	157.917	151.331
56.0	447.183	420.035	354.406	271.557	196.373	179.618	164.910	155.076	148.303
56.5	445.663	417.989	351.865	268.491	193.094	176.402	161.757	152.016	145.524
57.0	444.052	416.317	349.357	265.457	189.785	173.248	158.821	149.206	142.775
57.5	442.129	414.302	346.939	262.424	186.537	169.970	155.824	146.177	139.747
58.0	440.426	412.225	344.462	259.296	183.165	166.784	152.733	143.335	136.843
58.5	438.906	410.210	341.923	256.263	179.855	163.631	149.766	140.431	133.908
59.0	437.295	408.256	339.289	253.135	176.482	160.446	146.800	137.496	131.129
59.5	435.402	406.149	336.840	250.008	173.079	157.230	143.864	134.655	128.287
60.0	433.357	404.103	334.207	246.974	169.737	153.983	140.929	131.782	125.414
60.5	431.494	402.088	331.760	243.941	166.427	150.798	137.932	128.940	122.541
61.0	429.883	400.041	329.220	240.969	163.149	147.582	134.934	126.067	119.700
61.5	427.929	397.995	326.680	237.904	159.807	144.459	131.937	123.194	116.827
62.0	425.663	395.825	324.015	234.777	156.528	141.243	129.064	120.322	114.079
62.5	423.739	393.684	321.504	231.712	153.156	138.089	126.066	117.418	111.175
63.0	421.816	391.637	318.997	228.647	149.908	134.842	123.069	114.577	108.396
63.5	419.892	389.373	316.456	225.582	146.598	131.626	120.133	111.766	105.523
64.0	418.000	387.171	313.791	222.517	143.288	128.565	117.167	108.862	102.838
64.5	415.764	385.000	311.283	219.453	140.010	125.380	114.138	106.020	100.246
65.0	413.623	382.829	308.525	216.263	136.700	122.258	111.109	103.210	97.342
65.5	411.451	380.534	305.984	213.105	133.359	119.073	108.205	100.368	94.594
66.0	409.340	378.175	303.412	210.041	130.111	115.888	105.176	97.589	91.908
66.5	407.353	375.911	300.686	206.945	126.864	112.703	102.272	94.716	89.223
67.0	405.118	373.646	298.145	203.849	123.616	109.580	99.430	91.968	86.631
67.5	402.945	371.381	295.417	200.659	120.367	106.520	96.526	89.189	83.914
68.0	400.803	369.024	292.753	197.502	116.964	103.491	93.591	86.441	81.135
68.5	398.536	366.666	290.120	194.374	113.686	100.306	90.656	83.693	78.387
69.0	396.551	364.340	287.361	191.310	110.469	97.277	87.752	80.945	75.858
69.5	394.316	362.075	284.790	188.277	107.253	94.155	85.003	78.260	73.235
70.0	392.204	359.716	282.032	185.244	104.005	91.126	82.162	75.574	70.611
70.5	390.030	357.327	279.367	182.179	100.790	88.035	79.352	72.826	67.895
71.0	387.919	354.969	276.671	179.022	97.542	85.037	76.542	70.235	65.272
71.5	385.776	352.610	273.852	175.990	94.481	82.040	73.794	67.643	62.681
72.0	383.450	350.098	271.218	173.050	91.296	79.042	71.046	65.051	60.307
72.5	381.244	347.801	268.522	170.048	87.893	76.075	68.329	62.553	57.652
73.0	378.949	345.381	265.889	167.140	84.832	73.171	65.675	59.930	55.154
73.5	376.712	342.899	263.226	164.138	81.679	70.361	62.990	57.369	52.594
74.0	374.507	340.509	260.468	161.137	78.587	67.519	60.335	54.933	50.159
74.5	372.118	337.998	257.803	158.167	75.589	64.709	57.744	52.466	47.879
75.0	369.851	335.609	255.016	155.289	72.560	61.899	55.183	50.031	45.412
75.5	367.523	333.126	252.353	152.289	69.593	59.151	52.622	47.533	43.070
76.0	365.164	330.738	249.813	149.350	66.626	56.465	50.031	45.191	40.790
76.5	362.802	328.225	247.088	146.565	63.660	53.811	47.470	42.756	38.543
77.0	360.412	325.868	244.425	143.596	60.786	51.157	45.096	40.476	36.450
77.5	358.022	323.387	241.763	140.843	57.851	48.534	42.630	38.165	34.264
78.0	355.694	320.999	239.192	138.030	55.103	45.911	40.226	35.948	32.141
78.5	353.179	318.519	236.653	135.370	52.324	43.350	37.852	33.762	30.017
79.0	350.821	315.976	234.053	132.557	49.638	40.883	35.510	31.576	27.863
79.5	348.430	313.589	231.514	129.837	46.921	38.448	33.230	29.390	25.895
80.0	345.980	311.171	228.945	127.149	44.235	36.074	31.013	27.329	23.897
80.5	343.528	308.723	226.376	124.615	41.643	33.701	28.827	25.268	21.961
81.0	341.232	306.367	223.994	122.082	39.145	31.390	26.704	23.270	19.962
81.5	338.873	303.824	221.519	119.549	36.709	29.172	24.611	21.302	18.026
82.0	336.484	301.468	219.137	117.017	34.305	26.986	22.520	19.366	16.216
82.5	334.342	299.331	216.787	114.577	31.900	24.894	20.583	17.586	14.497

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CANDELA TABULATION - (Cont.)

83.0	332.016	297.038	214.375	112.293	29.589	22.771	18.647	15.775	12.718
83.5	329.815	294.713	212.025	110.040	27.372	20.709	16.805	13.995	11.000
84.0	327.675	292.514	209.801	107.789	25.218	18.742	14.993	12.277	9.314
84.5	325.473	290.252	207.545	105.538	23.094	16.837	13.151	10.560	7.753
85.0	323.395	287.960	205.321	103.411	21.033	14.995	11.402	8.967	6.347
85.5	321.348	285.854	203.003	101.285	19.004	13.152	9.716	7.437	5.098
86.0	319.303	283.839	200.778	99.252	17.036	11.373	8.092	6.063	4.192
86.5	317.409	282.008	198.772	97.219	15.132	9.654	6.531	5.001	3.567
87.0	315.669	280.729	196.793	95.341	13.320	7.968	5.157	4.158	3.161
87.5	314.417	279.757	195.306	93.402	11.509	6.344	4.188	3.626	2.911
88.0	313.812	279.306	194.247	91.493	9.667	4.751	3.501	3.252	2.785
88.5	313.356	278.977	193.585	89.829	7.825	3.440	3.126	2.971	2.629
89.0	313.085	278.894	193.415	88.685	5.950	2.815	2.907	2.876	2.597
89.5	313.030	278.842	193.276	88.307	4.357	2.596	2.813	2.783	2.566
90.0	313.066	278.820	193.292	88.329	3.726	2.534	2.781	2.782	2.597
90.5	312.825	278.893	193.310	88.506	4.427	2.533	2.781	2.781	2.565
91.0	312.956	279.121	193.544	89.337	5.955	2.563	2.750	2.812	2.565
91.5	313.025	279.537	194.058	90.794	7.790	3.052	2.780	2.781	2.534
92.0	313.406	280.201	195.227	92.532	9.564	3.938	2.872	2.750	2.595
92.5	313.817	281.331	196.832	94.270	11.276	5.376	3.116	2.841	2.656
93.0	314.665	282.744	198.748	96.286	12.988	7.058	3.728	2.964	2.870
93.5	315.762	284.529	200.789	98.085	14.762	8.740	4.767	3.299	3.359
94.0	317.389	286.563	202.889	100.130	16.627	10.453	6.174	3.972	4.307
94.5	319.359	288.629	204.866	102.145	18.524	12.104	7.795	5.043	5.622
95.0	321.422	290.849	207.183	104.158	20.481	13.908	9.446	6.327	7.090
95.5	323.485	293.099	209.407	106.265	22.499	15.744	11.159	7.887	8.773
96.0	325.641	295.194	211.598	108.432	24.579	17.578	12.994	9.570	10.424
96.5	327.735	297.350	213.853	110.692	26.719	19.505	14.799	11.251	12.198
97.0	329.859	299.539	216.107	112.982	28.921	21.432	16.664	13.025	14.002
97.5	332.045	301.787	218.391	115.271	31.216	23.481	18.561	14.891	15.776
98.0	334.167	304.035	220.678	117.713	33.478	25.560	20.457	16.696	17.580
98.5	336.413	306.345	223.085	120.186	35.895	27.701	22.444	18.591	19.538
99.0	338.629	308.685	225.493	122.628	38.403	29.995	24.494	20.518	21.495
99.5	340.845	310.964	227.931	125.193	40.910	32.258	26.603	22.537	23.545
100.0	343.059	313.304	230.430	127.788	43.479	34.644	28.714	24.556	25.502
100.5	345.274	315.674	232.898	130.383	46.109	37.029	30.916	26.574	27.581
101.0	347.613	317.983	235.428	133.070	48.801	39.415	33.210	28.654	29.631
101.5	349.766	320.290	237.925	135.726	51.523	41.984	35.473	30.764	31.802
102.0	352.103	322.692	240.546	138.443	54.306	44.369	37.828	32.936	34.035
102.5	354.348	325.001	243.074	141.130	57.089	47.061	40.183	35.168	36.237
103.0	356.656	327.370	245.633	143.847	59.995	50.241	42.599	37.401	38.500
103.5	358.962	329.710	248.222	146.625	62.931	52.871	45.046	39.694	40.733
104.0	361.271	332.048	250.843	149.465	65.806	55.103	47.493	42.019	43.119
104.5	363.514	334.510	253.431	152.243	68.742	57.918	50.062	44.404	45.504
105.0	365.883	336.819	255.989	155.021	71.800	60.609	52.601	46.821	47.920
105.5	367.913	339.188	258.639	157.860	74.829	63.453	55.169	49.237	50.336
106.0	370.249	341.558	261.197	160.730	77.886	66.634	57.800	51.684	52.814
106.5	372.433	343.835	263.756	163.631	81.037	69.937	60.461	54.162	55.260
107.0	374.709	346.173	266.344	166.440	84.126	72.353	63.091	56.700	57.922
107.5	376.985	348.542	268.902	169.340	87.276	74.953	65.843	59.207	60.399
108.0	379.168	350.850	271.553	172.302	90.427	77.889	68.535	61.899	62.998
108.5	381.320	353.158	274.173	175.264	93.638	80.887	71.257	64.468	65.568
109.0	383.627	355.373	276.762	178.195	96.819	83.853	74.070	67.160	68.198
109.5	385.748	357.837	279.350	181.095	99.999	86.850	76.854	69.759	70.798
110.0	387.962	359.990	281.878	184.119	103.241	89.878	79.607	72.451	73.521
110.5	390.115	362.299	284.313	187.080	106.483	92.906	82.451	75.142	76.181

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CANDELA TABULATION - (Cont.)

111.0	392.298	364.454	286.871	190.042	109.756	95.965	85.295	77.865	78.903
111.5	394.422	366.700	289.461	193.065	113.028	99.023	88.109	80.617	81.503
112.0	396.452	368.948	291.987	196.057	116.300	102.112	91.014	83.370	84.132
112.5	398.635	371.164	294.576	199.111	119.665	105.262	93.950	86.092	86.824
113.0	400.602	373.381	297.135	202.103	122.907	108.412	96.825	88.814	89.577
113.5	402.756	375.567	299.661	205.218	126.180	111.594	99.792	91.627	92.391
114.0	404.816	377.659	302.188	208.210	129.544	114.713	102.820	94.410	95.143
114.5	406.845	379.814	304.716	211.232	132.786	117.925	106.428	97.286	97.896
115.0	408.753	382.000	307.243	214.286	136.089	121.106	110.282	100.130	100.710
115.5	410.692	384.155	309.739	217.309	139.423	124.348	113.034	102.913	103.432
116.0	412.783	386.156	312.298	220.331	142.756	127.528	114.931	105.757	106.398
116.5	414.661	388.312	314.701	223.355	146.029	130.709	117.561	108.602	109.182
117.0	416.751	390.468	317.291	226.408	149.363	134.012	121.049	111.507	112.088
117.5	418.598	392.438	319.725	229.400	152.758	137.163	124.963	114.290	114.840
118.0	420.445	394.561	322.191	232.454	156.000	140.466	128.082	117.227	117.715
118.5	422.198	396.533	324.779	235.445	159.364	143.708	130.224	120.009	120.559
119.0	424.077	398.442	327.185	238.499	162.698	146.889	132.610	123.007	123.496
119.5	425.955	400.658	329.650	241.491	166.032	150.039	135.546	125.882	126.248
120.0	427.739	402.661	332.085	244.453	169.427	153.250	138.543	128.818	129.307
120.5	429.555	404.601	334.520	247.353	172.730	156.524	141.571	131.724	132.120
121.0	431.371	406.511	336.986	250.375	175.942	159.704	144.568	134.691	134.996
121.5	433.218	408.514	339.360	253.306	179.306	162.854	147.565	138.208	137.871
122.0	434.728	410.454	341.796	256.329	182.639	166.036	150.685	142.215	140.807
122.5	436.606	412.027	344.139	259.260	185.912	169.186	153.683	145.640	143.773
123.0	438.453	414.030	346.543	262.190	189.215	172.428	156.742	147.904	146.709
123.5	440.300	415.908	348.980	265.090	192.549	175.578	159.800	150.625	149.737
124.0	441.841	417.574	351.414	267.991	195.791	178.790	162.889	154.174	153.805
124.5	443.688	419.484	353.756	270.952	199.125	182.032	165.948	157.171	159.097
125.0	445.291	421.455	356.193	273.882	202.367	185.121	169.067	159.189	162.491
125.5	446.801	423.090	358.596	276.814	205.701	188.332	172.126	161.331	164.082
126.0	448.617	425.031	360.849	279.622	208.942	191.513	175.215	164.175	164.633
126.5	450.127	426.728	363.251	282.492	212.184	194.633	178.243	167.111	167.202
127.0	451.730	428.669	365.810	285.361	215.488	197.875	181.301	170.079	170.138
127.5	453.303	430.304	368.000	288.139	218.760	201.025	184.391	173.015	173.105
128.0	454.813	431.970	370.128	291.039	221.972	204.267	187.511	175.981	176.133
128.5	456.385	433.910	372.656	293.909	225.306	207.510	190.477	178.979	179.099
129.0	457.957	435.576	374.846	296.717	228.609	210.660	193.689	182.037	182.127
129.5	457.938	437.211	377.037	299.556	231.881	213.840	196.839	185.004	185.155
130.0	459.542	438.846	379.564	302.395	235.123	217.021	199.959	187.971	188.183
130.5	460.502	440.481	381.724	305.265	238.366	220.264	203.079	190.937	191.242
131.0	462.012	441.778	383.914	308.042	241.669	223.444	206.106	193.935	194.239
131.5	462.392	443.201	386.104	310.851	245.002	226.594	209.195	196.993	197.267
132.0	464.789	444.530	388.295	313.629	248.275	229.744	212.376	200.021	200.387
132.5	466.392	445.828	390.485	316.407	251.609	232.956	215.465	203.049	203.413
133.0	467.078	446.945	392.676	319.124	254.912	236.106	218.676	206.016	206.443
133.5	468.588	447.968	394.866	321.932	258.124	239.318	221.765	209.441	209.471
134.0	470.772	449.940	397.025	324.771	261.366	242.530	224.947	212.439	212.591
134.5	471.427	451.268	398.910	327.549	264.638	245.649	228.097	215.498	215.587
135.0	472.968	453.240	401.101	330.388	267.911	248.922	231.185	218.587	218.800
135.5	474.877	454.232	403.291	332.860	271.184	252.133	234.367	221.707	221.766
136.0	475.501	455.592	405.388	335.700	274.426	255.345	237.456	224.673	224.886
136.5	477.654	456.953	407.335	338.446	277.637	258.433	240.575	227.762	227.851
137.0	477.697	458.556	409.188	341.254	280.910	261.675	243.726	230.791	231.095
137.5	479.482	460.222	411.410	343.788	284.091	264.919	246.753	233.817	234.154
138.0	480.136	461.245	412.589	346.503	287.301	268.036	249.840	236.844	237.023
138.5	482.015	463.217	414.199	349.006	290.390	271.186	252.992	240.057	240.298

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CANDELA TABULATION - (Cont.)

139.0	483.069	463.966	416.390	351.783	293.571	274.245	256.081	243.085	243.418
139.5	483.936	465.263	417.937	354.223	296.784	277.457	259.170	246.174	246.508
140.0	484.897	466.655	419.853	356.695	299.934	280.515	262.167	249.202	249.567
140.5	486.500	468.046	420.820	359.441	303.115	283.696	265.349	252.383	252.871
141.0	487.430	469.375	422.399	361.881	306.357	286.786	268.499	255.625	256.113
141.5	488.696	469.849	424.589	364.627	309.569	289.905	271.588	258.806	259.263
142.0	489.413	471.546	426.137	367.099	312.627	293.025	274.676	261.987	262.443
142.5	490.374	472.875	428.053	369.539	315.685	296.083	277.734	265.014	265.624
143.0	491.884	473.867	429.600	372.042	318.744	299.203	280.793	268.073	268.774
143.5	493.182	474.616	431.179	374.544	322.108	302.384	283.974	271.315	271.955
144.0	492.613	475.701	433.064	377.047	325.198	305.503	287.031	274.495	275.136
144.5	494.279	477.093	434.642	379.519	328.287	308.439	290.151	277.645	278.316
145.0	495.820	478.147	435.915	381.747	331.345	311.497	293.210	280.703	281.620
145.5	495.895	479.202	438.106	384.249	334.404	314.587	296.267	283.853	284.678
146.0	496.824	479.888	439.347	386.478	337.188	317.645	299.265	286.911	287.828
146.5	498.521	481.279	440.957	388.063	340.246	320.704	302.292	290.030	290.978
147.0	499.208	481.965	442.505	390.260	343.304	323.762	305.443	293.119	294.158
147.5	500.505	483.388	443.809	391.876	346.088	326.883	308.470	296.238	297.217
148.0	500.517	483.525	445.388	393.767	349.146	329.910	311.529	299.358	300.428
148.5	500.623	484.273	446.355	396.270	351.930	332.663	314.618	302.477	303.548
149.0	501.552	485.664	447.934	398.467	355.020	335.446	317.645	305.535	306.728
149.5	502.026	485.190	448.901	400.083	357.772	338.536	320.704	308.502	309.787
150.0	502.313	486.519	450.480	402.617	360.525	341.594	323.762	311.560	313.151
150.5	503.305	487.267	452.396	404.539	363.277	344.378	326.820	314.924	316.210
151.0	503.348	488.016	452.782	406.767	366.061	347.130	329.604	317.951	319.543
151.5	504.371	488.184	454.667	408.658	368.845	350.189	332.663	321.041	322.632
152.0	504.445	488.658	455.359	410.887	371.628	352.973	335.721	324.068	325.965
152.5	504.183	489.406	456.663	412.503	374.381	355.725	338.810	327.126	329.055
153.0	504.257	489.543	457.968	414.731	376.859	358.509	341.532	329.879	332.113
153.5	505.249	490.323	458.935	416.653	378.419	361.261	344.621	333.243	335.172
154.0	504.712	490.797	459.627	418.881	381.478	364.351	347.374	336.270	338.567
154.5	505.398	490.965	460.257	420.498	383.619	366.798	350.432	339.328	341.657
155.0	506.053	491.407	461.499	422.114	385.485	369.613	353.216	342.081	344.684
155.5	505.852	491.301	462.372	424.068	387.657	372.334	356.274	345.139	347.773
156.0	504.978	491.775	462.940	425.653	390.409	375.149	359.058	348.198	350.800
156.5	505.664	492.280	463.570	427.606	392.581	376.678	361.811	351.225	353.553
157.0	505.982	492.111	464.506	429.254	395.059	379.462	364.563	353.977	356.643
157.5	504.577	492.310	465.136	430.533	397.200	381.908	367.653	357.036	359.701
158.0	504.670	491.592	465.860	432.150	399.372	384.355	370.405	360.094	362.759
158.5	503.851	491.791	466.278	433.492	401.819	386.221	372.852	362.847	365.512
159.0	503.008	491.991	467.001	435.108	403.991	388.668	374.687	365.599	368.570
159.5	503.819	492.159	467.419	436.756	405.826	391.421	378.388	368.657	371.323
160.0	502.820	491.990	467.868	438.066	408.304	393.593	379.917	371.410	374.381
160.5	502.102	491.790	468.623	439.102	410.170	396.071	382.701	374.162	377.165
161.0	502.357	491.833	469.072	440.444	411.699	398.211	384.842	376.303	380.192
161.5	501.764	490.715	469.796	441.755	414.146	400.658	386.708	379.056	382.639
162.0	501.358	490.240	469.053	443.097	415.675	402.830	389.461	381.808	383.799
162.5	500.209	489.491	470.114	443.521	418.153	405.308	391.601	383.949	386.490
163.0	499.884	489.996	469.983	445.169	419.714	407.755	394.691	386.090	388.843
163.5	499.315	489.003	470.157	445.867	421.854	409.621	396.832	388.843	391.564
164.0	499.483	488.990	470.606	446.903	423.384	411.456	398.973	391.289	393.979
164.5	498.490	488.029	470.475	447.602	425.250	413.597	401.756	394.073	397.281
165.0	497.529	487.985	470.649	448.638	427.085	416.043	404.203	396.214	399.728
165.5	495.956	486.411	470.549	449.643	428.951	417.604	406.038	398.355	401.869
166.0	495.943	485.818	470.387	450.679	430.480	419.439	408.210	401.107	404.864
166.5	495.256	485.193	470.592	451.715	431.704	421.611	410.626	403.554	407.617

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CANDELA TABULATION - (Cont.)

167.0	494.506	484.569	470.186	451.559	433.264	423.140	413.104	405.726	410.064
167.5	493.176	483.395	470.086	452.320	434.519	424.975	414.633	408.510	412.204
168.0	491.054	482.496	469.986	453.082	436.048	426.841	417.111	410.956	414.682
168.5	490.735	481.778	469.886	453.874	437.577	428.676	419.589	413.434	417.098
169.0	488.887	480.723	469.174	453.412	439.137	430.511	421.087	415.269	419.207
169.5	487.957	479.580	469.074	454.448	440.024	431.735	423.533	418.022	421.011
170.0	487.027	478.406	468.668	454.629	440.941	433.601	425.399	419.857	423.458
170.5	486.128	477.875	467.682	455.116	441.890	435.130	426.960	422.029	425.630
171.0	484.248	476.764	467.919	455.328	442.501	436.659	428.520	424.170	427.496
171.5	482.769	475.653	466.595	455.540	444.062	437.608	430.387	426.373	429.943
172.0	481.963	474.267	466.558	456.027	445.316	439.137	432.222	427.596	431.715
172.5	480.515	472.912	465.571	455.933	446.203	440.666	434.057	430.043	434.131
173.0	478.486	471.801	464.647	455.871	446.846	442.196	435.892	431.878	435.323
173.5	477.406	470.415	464.366	456.420	447.426	442.807	437.421	433.407	437.495
174.0	476.264	469.335	463.137	456.358	447.732	444.336	438.644	435.273	439.605
174.5	474.478	467.369	462.275	456.295	448.681	445.866	440.142	437.108	440.522
175.0	472.693	466.014	461.414	455.652	449.598	446.783	441.365	438.606	442.326
175.5	470.939	464.722	460.583	456.264	450.179	447.364	442.926	440.167	443.549
176.0	470.470	463.461	459.784	456.233	450.821	448.618	444.424	441.727	446.027
176.5	467.923	461.651	459.017	455.958	451.096	449.230	446.290	443.288	446.976
177.0	466.600	460.515	457.700	455.958	451.159	450.147	446.596	444.786	448.505
177.5	464.634	458.798	457.331	455.347	451.739	450.453	448.125	446.009	449.391
178.0	462.792	457.756	456.688	455.347	452.045	451.371	449.011	447.875	451.869
178.5	460.832	455.858	455.771	455.041	452.045	452.288	449.929	449.067	453.367
179.0	459.515	455.215	454.548	455.041	452.351	452.594	451.489	450.291	453.979
179.5	458.261	454.023	453.936	454.429	452.351	453.206	452.101	451.239	456.457
180.0	453.505	453.505	453.505	453.505	453.505	453.505	453.505	453.505	453.505

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	168.37	N.A.	5.50
0-30	357.67	N.A.	11.70
0-40	586.71	N.A.	19.20
0-60	1062.67	N.A.	34.70
0-80	1423.22	N.A.	46.50
0-90	1536.48	N.A.	50.20
10-90	1492.99	N.A.	48.80
20-40	418.34	N.A.	13.70
20-50	661.19	N.A.	21.60
40-70	678.60	N.A.	22.20
60-80	360.56	N.A.	11.80
70-80	157.91	N.A.	5.20
80-90	113.26	N.A.	3.70
90-110	270.15	N.A.	8.80
90-120	471.37	N.A.	15.40
90-130	702.83	N.A.	23.00
90-150	1170.8	N.A.	38.20
90-180	1524.5	N.A.	49.80
110-180	1254.35	N.A.	41.00
0-180	3060.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.50
10-20	124.88
20-30	189.30
30-40	229.04
40-50	242.85
50-60	233.10
60-70	202.65
70-80	157.91
80-90	113.26
90-100	113.09
100-110	157.06
110-120	201.22
120-130	231.45
130-140	241.00
140-150	226.97
150-160	187.28
160-170	123.41
170-180	43.01

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-927U-L19-927D-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-L19-927U-L19-927D-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	18.6	19.5	19.6	20.5	21.8	12.7	13.6	13.6	14.6	15.8
	3H	21.7	22.5	22.7	23.5	24.8	14.0	14.9	15.0	15.8	17.1
	4H	23.3	24.1	24.3	25.1	26.3	14.5	15.2	15.4	16.2	17.5
	6H	25.0	25.7	25.9	26.7	28.0	14.7	15.4	15.7	16.4	17.7
	8H	25.8	26.5	26.8	27.6	28.9	14.8	15.4	15.7	16.5	17.8
	12H	26.8	27.5	27.8	28.5	29.8	14.8	15.4	15.8	16.4	17.8

UGR Viewed Endwise

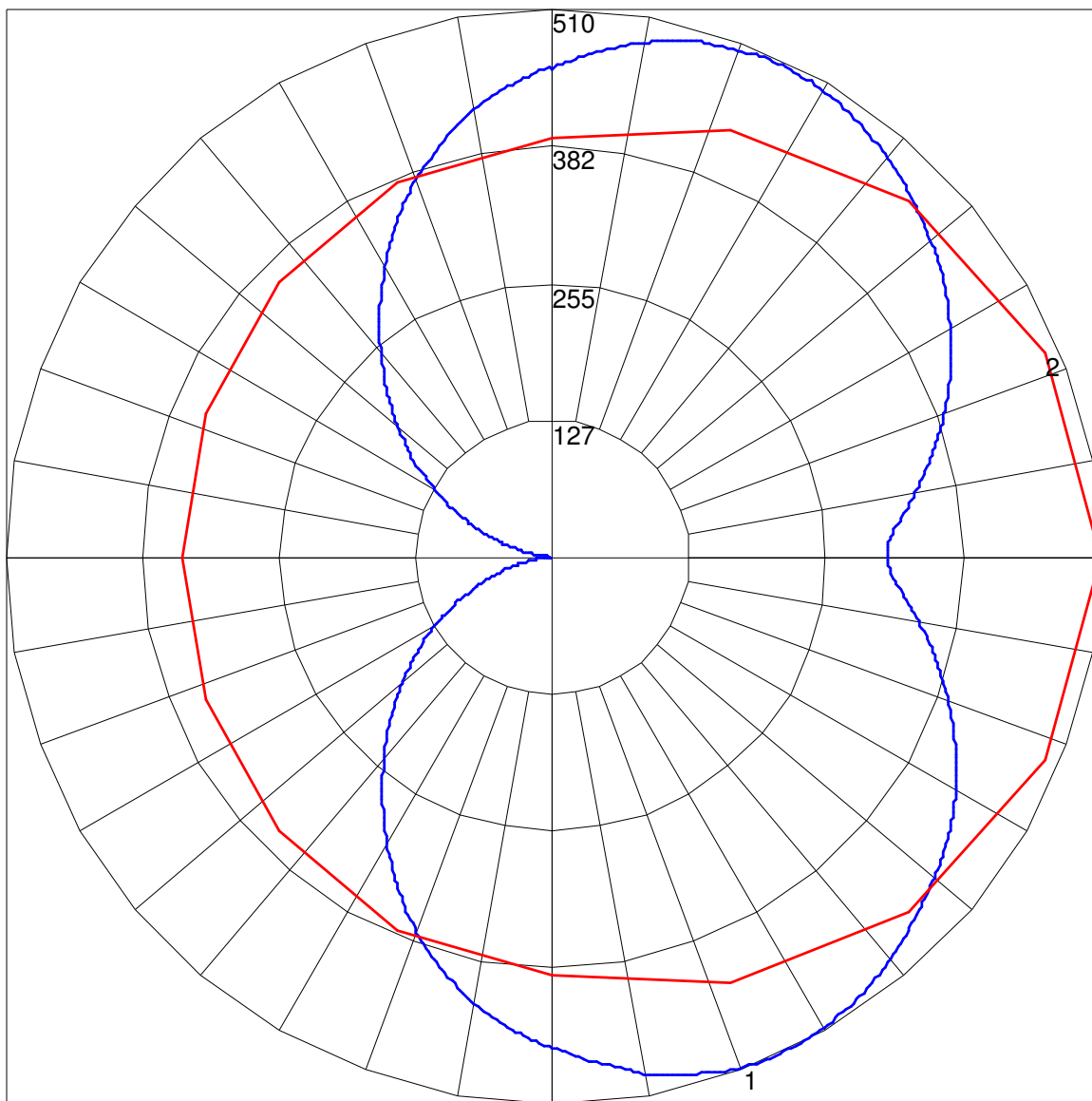
4H	2H	18.9	19.7	19.9	20.7	22.0	13.9	14.7	14.9	15.7	17.0
	3H	22.2	22.9	23.2	23.9	25.2	15.6	16.2	16.5	17.2	18.5
	4H	24.0	24.6	25.0	25.6	26.9	16.1	16.7	17.1	17.7	19.1
	6H	25.9	26.4	26.9	27.4	28.7	16.5	17.0	17.5	18.1	19.4
	8H	26.8	27.3	27.9	28.4	29.7	16.6	17.1	17.6	18.1	19.5
	12H	27.9	28.4	29.0	29.4	30.8	16.6	17.1	17.7	18.1	19.5

8H	4H	24.1	24.6	25.1	25.6	27.0	17.2	17.7	18.2	18.8	20.1
	6H	26.2	26.6	27.2	27.6	29.0	17.9	18.3	18.9	19.3	20.7
	8H	27.3	27.7	28.3	28.7	30.1	18.1	18.5	19.1	19.5	20.9
	12H	28.6	28.9	29.6	30.0	31.4	18.2	18.5	19.2	19.6	21.0

12H	4H	24.1	24.5	25.1	25.6	26.9	17.6	18.0	18.6	19.1	20.4
	6H	26.2	26.5	27.2	27.6	29.0	18.4	18.8	19.4	19.8	21.2
	8H	27.4	27.7	28.4	28.7	30.1	18.7	19.0	19.7	20.1	21.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 509.653 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.)