

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-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-L19-950U-L19-950D-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	3405
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	9375	8830	8419
55	9320	8439	7688
65	9336	8133	6820
75	9498	7932	5547
85	9984	8087	3675

IES INDOOR REPORT
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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	509.635	509.635	509.635	509.635	509.635	509.635	509.635	509.635	509.635
0.5	510.352	511.202	510.255	512.196	508.722	511.365	507.933	507.906	507.954
1.0	511.741	512.415	512.128	512.612	508.409	510.602	506.475	506.448	506.530
1.5	513.580	514.042	512.680	513.722	508.409	509.179	505.712	504.677	504.099
2.0	515.140	516.051	513.926	513.824	508.027	508.103	504.322	503.253	502.675
2.5	517.394	517.434	515.588	514.273	507.680	507.408	502.933	502.211	501.319
3.0	518.886	519.511	516.902	514.375	507.333	506.713	501.891	500.127	499.548
3.5	520.861	521.343	517.869	515.554	507.333	505.289	500.154	498.703	498.506
4.0	523.463	523.175	519.531	515.656	506.604	503.900	499.459	496.966	496.075
4.5	524.641	524.693	520.845	515.444	506.256	503.553	497.722	495.229	493.956
5.0	525.295	526.593	521.982	516.589	505.562	501.816	495.638	493.458	491.906
5.5	527.720	528.146	522.357	516.725	504.519	500.079	494.596	491.721	490.864
6.0	529.347	529.385	523.358	516.514	503.791	499.697	493.206	490.298	488.745
6.5	530.662	531.734	524.393	516.336	503.130	498.342	491.401	487.832	486.695
7.0	531.976	533.219	525.080	516.404	502.748	497.231	489.664	485.714	484.229
7.5	533.317	534.458	525.802	516.261	500.978	495.494	487.580	483.977	481.797
8.0	535.898	535.350	526.694	515.355	499.935	493.757	485.843	481.858	479.366
8.5	538.184	536.657	527.585	515.872	499.588	492.715	484.072	479.774	476.968
9.0	541.309	538.032	528.375	515.314	497.851	490.944	481.953	476.961	474.536
9.5	542.855	539.230	528.851	515.484	496.775	488.860	479.869	474.842	473.841
10.0	544.577	541.089	529.294	514.993	495.733	487.436	478.132	472.758	470.020
10.5	546.266	542.185	530.084	514.469	493.996	485.733	476.014	470.292	468.317
11.0	547.294	542.968	530.560	513.631	493.267	483.962	473.548	468.555	465.885
11.5	548.220	544.200	530.689	512.793	491.182	481.878	471.497	465.742	462.759
12.0	548.798	545.084	531.165	512.649	489.793	480.802	469.379	463.310	460.014
12.5	550.800	546.664	531.328	511.811	488.717	477.989	466.947	460.879	457.582
13.0	551.930	547.514	531.559	510.973	487.327	476.252	464.482	458.066	454.176
13.5	552.815	548.644	531.790	510.483	484.895	474.167	462.363	455.252	452.160
14.0	554.496	549.359	532.055	509.679	483.819	471.354	459.237	452.473	449.135
14.5	555.660	550.107	531.557	508.459	482.082	469.617	456.771	449.694	446.043
15.0	555.680	550.474	531.720	507.655	479.616	467.499	454.339	446.915	442.950
15.5	556.401	550.876	531.672	506.088	477.532	465.381	451.526	443.788	441.213
16.0	556.708	551.624	531.276	504.801	475.761	462.949	449.408	441.009	437.011
16.5	558.205	552.373	531.923	504.344	474.024	460.517	446.628	438.578	434.926
17.0	559.845	552.079	531.874	502.777	472.287	457.704	444.163	435.417	432.876
17.5	560.103	553.209	531.445	500.829	469.821	455.933	441.002	433.299	429.368
18.0	561.090	552.915	531.015	500.025	467.390	452.425	437.876	430.172	426.936
18.5	562.424	553.350	530.483	498.526	464.924	450.341	436.452	428.435	423.776
19.0	562.089	553.786	530.367	497.443	462.840	447.527	433.673	425.309	420.649
19.5	563.661	553.839	529.488	496.046	460.374	445.409	430.512	422.182	417.141
20.0	564.437	553.614	529.371	494.200	458.289	442.630	429.123	419.056	414.015
20.5	564.660	554.049	528.179	492.701	456.171	439.817	425.962	415.895	410.507
21.0	564.850	553.789	527.715	490.644	453.045	437.038	422.836	412.768	407.380
21.5	565.422	553.945	526.870	489.594	450.926	435.614	420.057	409.295	403.906
22.0	566.163	553.822	526.059	488.232	448.147	432.140	416.896	406.168	400.398
22.5	566.591	553.698	525.213	486.454	445.334	429.640	413.735	403.041	397.272
23.0	566.290	553.888	524.402	484.641	442.868	426.166	410.609	399.568	393.764
23.5	566.371	553.519	523.904	482.134	439.742	424.777	407.448	396.094	390.290
24.0	566.765	553.464	522.746	480.806	437.657	421.964	404.288	392.933	386.469
24.5	566.989	553.340	521.935	478.782	434.497	418.837	401.161	389.493	383.342
25.0	566.518	553.251	520.429	477.318	433.454	415.643	398.001	385.985	379.834
25.5	565.699	552.466	519.618	475.539	430.989	412.516	394.874	382.511	376.013
26.0	565.923	552.275	518.459	472.719	428.557	409.355	391.366	379.385	372.852
26.5	565.486	551.388	517.335	470.560	425.396	406.229	388.206	375.911	368.997

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	564.702	550.849	516.591	468.781	422.236	403.034	384.732	372.437	365.523
27.5	564.681	550.658	514.493	467.003	419.423	399.908	381.571	368.929	362.015
28.0	564.905	549.771	513.123	463.802	416.296	396.400	378.411	365.455	358.194
28.5	563.984	548.885	512.066	462.337	413.517	393.273	374.937	361.981	354.686
29.0	563.234	548.693	511.010	459.517	410.043	390.113	371.463	358.160	351.212
29.5	563.076	547.112	509.674	456.628	406.883	386.639	367.955	354.686	347.564
30.0	562.810	546.158	508.270	454.816	403.722	383.097	364.828	351.178	343.953
30.5	561.923	545.374	506.866	452.343	400.595	379.970	361.320	347.669	340.478
31.0	561.800	544.835	505.497	449.802	397.469	376.462	357.846	344.161	336.866
31.5	561.049	544.228	503.398	448.685	394.308	372.988	354.373	340.721	333.289
32.0	559.884	543.341	502.375	445.796	390.834	369.828	350.865	337.143	329.849
32.5	560.108	542.108	500.590	444.332	387.674	366.320	347.356	333.669	326.203
33.0	558.213	541.603	499.118	441.859	384.547	362.846	343.847	330.022	322.555
33.5	558.539	539.987	497.299	439.004	381.039	359.338	340.373	326.513	319.046
34.0	558.068	538.788	495.132	436.497	377.565	355.864	336.865	323.074	315.399
34.5	556.970	537.554	492.965	433.609	374.058	352.704	333.357	319.496	311.856
35.0	555.669	536.320	491.528	430.755	370.584	349.125	329.918	315.987	308.417
35.5	554.850	535.468	490.022	428.248	367.457	345.618	326.478	312.444	304.804
36.0	553.541	533.539	487.923	425.393	363.983	342.109	322.970	308.970	301.192
36.5	552.791	532.306	486.451	422.539	360.162	338.601	319.323	305.565	297.614
37.0	551.591	531.453	483.903	419.651	356.654	335.196	315.918	301.988	294.001
37.5	550.528	529.559	481.702	416.796	353.180	331.584	312.444	298.375	290.597
38.0	550.091	527.978	480.298	413.942	349.706	328.076	308.901	294.971	286.915
38.5	547.917	526.778	477.437	411.088	346.163	324.497	305.427	291.428	283.268
39.0	546.853	525.926	475.584	407.886	342.550	321.059	301.884	287.954	279.724
39.5	545.340	523.997	475.849	404.998	339.042	317.550	298.479	284.411	276.216
40.0	544.937	522.797	473.716	402.143	335.429	313.937	295.041	280.937	272.811
40.5	542.832	521.530	471.583	398.942	331.817	310.430	291.463	277.463	269.303
41.0	541.251	519.703	469.382	396.053	328.308	306.921	287.989	273.955	265.726
41.5	539.492	518.122	467.250	392.919	324.626	303.274	284.445	270.550	262.286
42.0	539.055	516.854	464.702	390.099	321.048	299.938	280.972	267.008	258.847
42.5	537.610	515.307	462.535	387.279	317.435	296.396	277.463	263.464	255.442
43.0	535.818	512.684	460.300	384.527	313.823	292.817	273.989	260.129	251.831
43.5	534.965	511.450	458.168	381.393	310.036	289.239	270.411	256.552	248.460
44.0	533.139	509.869	455.687	378.259	306.493	285.731	266.833	253.043	245.160
44.5	531.694	508.322	453.105	375.092	302.810	282.257	263.325	249.605	241.722
45.0	530.630	507.088	450.973	372.237	299.197	278.576	259.851	246.061	238.352
45.5	528.354	504.846	448.459	369.105	295.585	275.032	256.238	242.657	234.809
46.0	528.197	503.299	445.944	366.007	291.903	271.454	252.765	239.218	231.405
46.5	526.091	502.413	443.778	362.874	288.254	267.911	249.186	235.710	228.139
47.0	525.307	501.874	441.264	359.673	284.469	264.367	245.678	232.339	224.840
47.5	524.141	500.429	438.716	356.643	280.717	260.755	242.170	228.866	221.331
48.0	522.730	498.398	436.304	353.614	277.000	257.038	238.730	225.566	217.927
48.5	520.454	496.572	433.687	350.550	273.352	253.425	235.152	222.127	214.557
49.0	519.043	494.643	431.207	347.381	269.705	249.847	231.644	218.792	211.118
49.5	517.666	492.714	428.659	344.213	266.023	246.338	228.205	215.423	207.852
50.0	517.856	491.201	426.111	341.115	262.306	242.761	224.766	212.054	204.413
50.5	515.369	489.273	423.631	337.914	258.623	239.079	221.223	208.857	201.079
51.0	514.898	487.412	421.151	334.817	254.976	235.535	217.784	205.453	197.710
51.5	513.173	485.518	418.255	331.614	251.328	231.888	214.275	202.084	194.445
52.0	511.449	483.242	415.673	328.274	247.611	228.379	210.905	198.784	191.249
52.5	509.970	481.347	413.193	325.142	243.963	224.836	207.467	195.484	187.914
53.0	508.143	479.385	410.332	321.871	240.281	221.223	203.993	192.184	184.544
53.5	506.317	477.524	407.749	318.635	236.703	217.576	200.519	188.918	181.175
54.0	504.627	475.562	405.062	315.329	232.986	214.067	197.080	185.548	178.187
54.5	502.800	473.422	402.270	311.988	229.408	210.593	193.676	182.318	174.888

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	501.042	471.459	399.617	308.753	225.761	206.981	190.237	178.983	171.552
55.5	499.249	469.183	396.998	305.377	222.148	203.334	186.833	175.683	168.356
56.0	497.491	467.289	394.277	302.107	218.465	199.825	183.463	172.522	164.987
56.5	495.800	465.013	391.450	298.697	214.817	196.247	179.955	169.117	161.895
57.0	494.008	463.153	388.659	295.321	211.135	192.738	176.688	165.992	158.838
57.5	491.868	460.911	385.970	291.946	207.522	189.092	173.354	162.622	155.469
58.0	489.974	458.601	383.213	288.467	203.771	185.548	169.915	159.461	152.238
58.5	488.283	456.359	380.389	285.092	200.088	182.039	166.615	156.230	148.972
59.0	486.491	454.185	377.459	281.612	196.337	178.496	163.315	152.964	145.880
59.5	484.385	451.841	374.735	278.134	192.550	174.918	160.049	149.803	142.719
60.0	482.109	449.565	371.805	274.759	188.833	171.306	156.784	146.607	139.523
60.5	480.037	447.323	369.083	271.384	185.151	167.763	153.449	143.446	136.327
61.0	478.245	445.046	366.257	268.078	181.503	164.184	150.114	140.250	133.166
61.5	476.071	442.770	363.431	264.669	177.786	160.711	146.779	137.054	129.970
62.0	473.550	440.355	360.466	261.189	174.137	157.133	143.583	133.859	126.913
62.5	471.410	437.973	357.673	257.780	170.386	153.624	140.248	130.628	123.682
63.0	469.270	435.696	354.884	254.370	166.773	150.012	136.914	127.467	120.590
63.5	467.130	433.177	352.058	250.960	163.090	146.433	133.648	124.339	117.394
64.0	465.025	430.727	349.093	247.551	159.408	143.029	130.348	121.109	114.407
64.5	462.537	428.312	346.302	244.141	155.761	139.486	126.978	117.947	111.523
65.0	460.155	425.898	343.234	240.593	152.079	136.012	123.608	114.821	108.293
65.5	457.739	423.344	340.407	237.079	148.362	132.468	120.378	111.659	105.236
66.0	455.391	420.720	337.546	233.670	144.748	128.926	117.008	108.568	102.248
66.5	453.180	418.201	334.513	230.226	141.136	125.382	113.778	105.372	99.260
67.0	450.693	415.681	331.686	226.782	137.522	121.908	110.616	102.315	96.377
67.5	448.276	413.162	328.652	223.233	133.909	118.504	107.385	99.223	93.355
68.0	445.893	410.540	325.688	219.721	130.123	115.134	104.120	96.166	90.263
68.5	443.371	407.916	322.759	216.242	126.475	111.591	100.855	93.109	87.206
69.0	441.163	405.328	319.689	212.833	122.897	108.221	97.624	90.052	84.392
69.5	438.676	402.809	316.829	209.458	119.319	104.747	94.566	87.064	81.474
70.0	436.327	400.184	313.761	206.083	115.706	101.377	91.406	84.077	78.555
70.5	433.909	397.527	310.796	202.674	112.129	97.939	88.279	81.019	75.534
71.0	431.560	394.903	307.797	199.162	108.515	94.604	85.153	78.136	72.615
71.5	429.176	392.279	304.660	195.788	105.111	91.269	82.096	75.253	69.732
72.0	426.588	389.484	301.730	192.518	101.567	87.934	79.039	72.369	67.091
72.5	424.134	386.928	298.731	189.179	97.781	84.634	76.016	69.590	64.138
73.0	421.580	384.236	295.802	185.943	94.375	81.403	73.063	66.672	61.359
73.5	419.092	381.475	292.839	182.603	90.868	78.276	70.076	63.824	58.511
74.0	416.639	378.817	289.771	179.264	87.428	75.115	67.123	61.113	55.802
74.5	413.981	376.023	286.806	175.961	84.093	71.989	64.240	58.369	53.266
75.0	411.459	373.365	283.706	172.759	80.723	68.862	61.391	55.660	50.521
75.5	408.869	370.603	280.743	169.421	77.422	65.805	58.542	52.881	47.915
76.0	406.245	367.946	277.917	166.152	74.122	62.818	55.659	50.275	45.379
76.5	403.618	365.150	274.886	163.054	70.822	59.865	52.810	47.566	42.879
77.0	400.959	362.528	271.923	159.751	67.625	56.912	50.170	45.030	40.550
77.5	398.299	359.768	268.961	156.688	64.359	53.994	47.426	42.459	38.119
78.0	395.710	357.111	266.101	153.558	61.302	51.076	44.751	39.992	35.756
78.5	392.912	354.353	263.276	150.599	58.211	48.227	42.111	37.560	33.394
79.0	390.288	351.524	260.383	147.470	55.222	45.483	39.505	35.128	30.997
79.5	387.629	348.868	257.559	144.443	52.200	42.773	36.969	32.696	28.809
80.0	384.903	346.177	254.702	141.453	49.212	40.132	34.502	30.404	26.585
80.5	382.175	343.454	251.843	138.634	46.328	37.492	32.070	28.111	24.431
81.0	379.621	340.833	249.193	135.816	43.548	34.921	29.708	25.888	22.208
81.5	376.997	338.004	246.440	132.998	40.839	32.454	27.380	23.699	20.054
82.0	374.338	335.383	243.790	130.181	38.164	30.022	25.053	21.545	18.040
82.5	371.955	333.006	241.176	127.467	35.489	27.695	22.899	19.564	16.128

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	369.368	330.454	238.492	124.926	32.918	25.332	20.745	17.549	14.149
83.5	366.919	327.868	235.878	122.420	30.452	23.039	18.695	15.569	12.238
84.0	364.539	325.421	233.403	119.916	28.055	20.850	16.680	13.659	10.361
84.5	362.088	322.906	230.894	117.411	25.692	18.731	14.631	11.748	8.625
85.0	359.777	320.355	228.420	115.045	23.400	16.682	12.685	9.976	7.061
85.5	357.499	318.012	225.840	112.679	21.142	14.632	10.809	8.274	5.671
86.0	355.224	315.771	223.366	110.418	18.953	12.652	9.002	6.746	4.664
86.5	353.118	313.734	221.133	108.156	16.834	10.741	7.265	5.564	3.969
87.0	351.181	312.312	218.932	106.067	14.819	8.865	5.737	4.626	3.517
87.5	349.789	311.230	217.278	103.910	12.804	7.057	4.659	4.034	3.238
88.0	349.115	310.728	216.100	101.786	10.755	5.286	3.895	3.618	3.098
88.5	348.608	310.361	215.363	99.935	8.705	3.827	3.477	3.305	2.925
89.0	348.307	310.269	215.175	98.663	6.620	3.132	3.234	3.200	2.889
89.5	348.246	310.212	215.020	98.241	4.847	2.888	3.130	3.096	2.855
90.0	348.286	310.188	215.038	98.265	4.146	2.819	3.094	3.095	2.889
90.5	348.018	310.269	215.058	98.463	4.925	2.818	3.094	3.094	2.853
91.0	348.164	310.523	215.317	99.388	6.625	2.851	3.059	3.128	2.853
91.5	348.240	310.984	215.890	101.008	8.666	3.396	3.093	3.094	2.819
92.0	348.664	311.723	217.190	102.942	10.640	4.382	3.195	3.059	2.887
92.5	349.121	312.981	218.976	104.875	12.544	5.981	3.466	3.161	2.955
93.0	350.064	314.552	221.107	107.118	14.449	7.852	4.147	3.297	3.193
93.5	351.285	316.538	223.377	109.120	16.423	9.723	5.304	3.671	3.737
94.0	353.096	318.802	225.714	111.395	18.498	11.629	6.869	4.419	4.792
94.5	355.287	321.100	227.913	113.636	20.608	13.465	8.672	5.611	6.255
95.0	357.582	323.569	230.491	115.876	22.785	15.473	10.509	7.039	7.887
95.5	359.877	326.072	232.965	118.220	25.031	17.515	12.414	8.774	9.760
96.0	362.276	328.403	235.403	120.630	27.344	19.556	14.456	10.646	11.597
96.5	364.605	330.802	237.911	123.145	29.725	21.699	16.464	12.517	13.570
97.0	366.968	333.237	240.419	125.692	32.175	23.843	18.539	14.490	15.578
97.5	369.400	335.738	242.961	128.239	34.728	26.122	20.649	16.567	17.551
98.0	371.761	338.239	245.504	130.956	37.245	28.436	22.758	18.574	19.558
98.5	374.260	340.808	248.182	133.707	39.933	30.818	24.969	20.683	21.736
99.0	376.724	343.412	250.861	136.424	42.723	33.369	27.249	22.826	23.914
99.5	379.190	345.947	253.573	139.277	45.513	35.887	29.596	25.073	26.194
100.0	381.653	348.551	256.354	142.164	48.371	38.541	31.944	27.318	28.371
100.5	384.118	351.187	259.099	145.051	51.297	41.195	34.394	29.564	30.684
101.0	386.719	353.756	261.914	148.040	54.291	43.849	36.946	31.877	32.964
101.5	389.115	356.322	264.692	150.995	57.319	46.708	39.464	34.225	35.380
102.0	391.715	358.995	267.607	154.018	60.415	49.360	42.084	36.641	37.864
102.5	394.212	361.563	270.420	157.007	63.511	52.355	44.704	39.125	40.314
103.0	396.780	364.199	273.267	160.030	66.744	55.893	47.392	41.608	42.832
103.5	399.345	366.802	276.147	163.120	70.011	58.820	50.114	44.160	45.316
104.0	401.914	369.403	279.063	166.279	73.209	61.303	52.836	46.747	47.969
104.5	404.410	372.143	281.942	169.370	76.475	64.434	55.694	49.400	50.623
105.0	407.045	374.711	284.788	172.460	79.878	67.428	58.518	52.088	53.311
105.5	409.303	377.347	287.736	175.620	83.247	70.592	61.376	54.776	55.999
106.0	411.902	379.983	290.582	178.812	86.648	74.130	64.302	57.498	58.756
106.5	414.332	382.516	293.428	182.040	90.154	77.805	67.263	60.255	61.477
107.0	416.864	385.118	296.308	185.164	93.590	80.493	70.189	63.078	64.438
107.5	419.396	387.753	299.154	188.391	97.095	83.385	73.251	65.868	67.194
108.0	421.825	390.321	302.103	191.686	100.600	86.651	76.245	68.863	70.086
108.5	424.219	392.888	305.017	194.981	104.172	89.986	79.273	71.720	72.945
109.0	426.785	395.353	307.898	198.242	107.711	93.286	82.403	74.715	75.871
109.5	429.145	398.093	310.777	201.468	111.249	96.621	85.500	77.607	78.763
110.0	431.608	400.489	313.589	204.832	114.856	99.990	88.562	80.601	81.792
110.5	434.003	403.058	316.299	208.126	118.462	103.358	91.727	83.596	84.752

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	436.432	405.455	319.144	211.422	122.103	106.761	94.891	86.624	87.780
111.5	438.794	407.954	322.025	214.785	125.744	110.163	98.021	89.687	90.672
112.0	441.053	410.455	324.835	218.114	129.384	113.600	101.253	92.749	93.597
112.5	443.482	412.920	327.716	221.511	133.128	117.104	104.520	95.777	96.592
113.0	445.670	415.386	330.563	224.839	136.734	120.609	107.718	98.805	99.654
113.5	448.066	417.818	333.373	228.305	140.375	124.148	111.018	101.935	102.784
114.0	450.357	420.146	336.184	231.633	144.117	127.619	114.387	105.032	105.847
114.5	452.616	422.543	338.996	234.996	147.724	131.191	118.402	108.231	108.909
115.0	454.738	424.976	341.808	238.393	151.399	134.730	122.689	111.395	112.040
115.5	456.895	427.373	344.585	241.756	155.108	138.337	125.751	114.491	115.068
116.0	459.221	429.599	347.432	245.119	158.817	141.875	127.861	117.655	118.368
116.5	461.310	431.997	350.105	248.482	162.457	145.414	130.787	120.819	121.464
117.0	463.636	434.395	352.986	251.879	166.167	149.089	134.667	124.052	124.697
117.5	465.690	436.587	355.694	255.207	169.943	152.594	139.022	127.148	127.759
118.0	467.745	438.949	358.437	258.605	173.550	156.268	142.491	130.415	130.958
118.5	469.696	441.143	361.317	261.933	177.292	159.876	144.875	133.510	134.122
119.0	471.785	443.267	363.993	265.330	181.002	163.414	147.528	136.846	137.389
119.5	473.875	445.732	366.735	268.659	184.710	166.919	150.795	140.044	140.451
120.0	475.860	447.960	369.444	271.954	188.488	170.491	154.129	143.310	143.854
120.5	477.880	450.119	372.153	275.180	192.162	174.132	157.498	146.543	146.984
121.0	479.900	452.243	374.897	278.543	195.735	177.671	160.832	149.844	150.183
121.5	481.955	454.472	377.538	281.803	199.478	181.175	164.166	153.756	153.381
122.0	483.634	456.631	380.248	285.166	203.186	184.715	167.637	158.214	156.648
122.5	485.724	458.380	382.854	288.427	206.827	188.219	170.972	162.024	159.948
123.0	487.779	460.608	385.529	291.687	210.502	191.826	174.375	164.543	163.214
123.5	489.833	462.698	388.240	294.913	214.211	195.331	177.777	167.571	166.583
124.0	491.548	464.551	390.948	298.140	217.817	198.904	181.215	171.518	171.109
124.5	493.603	466.675	393.554	301.434	221.527	202.511	184.617	174.853	176.996
125.0	495.387	468.869	396.264	304.694	225.133	205.947	188.087	177.098	180.771
125.5	497.066	470.688	398.939	307.955	228.842	209.520	191.491	179.481	182.541
126.0	499.086	472.847	401.444	311.079	232.448	213.058	194.927	182.644	183.154
126.5	500.766	474.735	404.117	314.272	236.055	216.529	198.295	185.911	186.012
127.0	502.550	476.894	406.964	317.464	239.730	220.136	201.698	189.212	189.278
127.5	504.299	478.713	409.401	320.555	243.371	223.641	205.135	192.479	192.579
128.0	505.979	480.566	411.768	323.781	246.944	227.247	208.606	195.779	195.948
128.5	507.728	482.725	414.580	326.973	250.653	230.854	211.906	199.114	199.248
129.0	509.477	484.579	417.017	330.098	254.327	234.359	215.479	202.516	202.616
129.5	509.456	486.397	419.454	333.256	257.968	237.897	218.983	205.817	205.985
130.0	511.240	488.216	422.265	336.415	261.575	241.436	222.454	209.117	209.354
130.5	512.309	490.035	424.668	339.607	265.182	245.043	225.925	212.418	212.756
131.0	513.988	491.478	427.104	342.697	268.857	248.582	229.293	215.753	216.091
131.5	514.412	493.061	429.541	345.822	272.565	252.086	232.730	219.155	219.460
132.0	517.077	494.540	431.978	348.912	276.206	255.591	236.268	222.523	222.930
132.5	518.861	495.983	434.415	352.003	279.915	259.164	239.705	225.892	226.297
133.0	519.624	497.226	436.852	355.025	283.590	262.668	243.277	229.193	229.668
133.5	521.304	498.364	439.289	358.149	287.163	266.242	246.714	233.004	233.036
134.0	523.734	500.558	441.691	361.308	290.770	269.814	250.253	236.338	236.507
134.5	524.462	502.036	443.787	364.398	294.410	273.285	253.758	239.741	239.841
135.0	526.177	504.230	446.224	367.557	298.051	276.925	257.193	243.178	243.415
135.5	528.301	505.333	448.661	370.307	301.692	280.498	260.733	246.649	246.715
136.0	528.995	506.847	450.994	373.466	305.299	284.071	264.170	249.948	250.186
136.5	531.390	508.360	453.160	376.521	308.871	287.507	267.640	253.386	253.485
137.0	531.438	510.144	455.222	379.645	312.512	291.113	271.145	256.755	257.093
137.5	533.423	511.997	457.693	382.464	316.052	294.722	274.513	260.122	260.496
138.0	534.152	513.135	459.005	385.485	319.622	298.190	277.947	263.489	263.688
138.5	536.241	515.329	460.797	388.269	323.059	301.695	281.453	267.063	267.332

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	537.414	516.162	463.233	391.359	326.598	305.097	284.890	270.432	270.803
139.5	538.379	517.606	464.955	394.073	330.172	308.671	288.327	273.869	274.240
140.0	539.447	519.154	467.086	396.823	333.676	312.073	291.661	277.237	277.643
140.5	541.231	520.701	468.162	399.878	337.215	315.612	295.201	280.776	281.319
141.0	542.265	522.180	469.919	402.593	340.823	319.049	298.705	284.383	284.925
141.5	543.674	522.707	472.356	405.648	344.395	322.520	302.141	287.921	288.430
142.0	544.472	524.595	474.077	408.397	347.798	325.990	305.577	291.460	291.968
142.5	545.541	526.074	476.209	411.112	351.200	329.393	308.980	294.828	295.507
143.0	547.221	527.177	477.930	413.896	354.602	332.863	312.382	298.231	299.011
143.5	548.665	528.010	479.687	416.681	358.345	336.402	315.921	301.837	302.550
144.0	548.032	529.218	481.783	419.465	361.782	339.872	319.322	305.375	306.088
144.5	549.886	530.766	483.540	422.214	365.219	343.138	322.793	308.880	309.627
145.0	551.600	531.939	484.956	424.693	368.622	346.541	326.196	312.282	313.302
145.5	551.683	533.112	487.393	427.477	372.024	349.978	329.598	315.787	316.705
146.0	552.717	533.875	488.774	429.956	375.121	353.380	332.932	319.189	320.209
146.5	554.605	535.423	490.565	431.720	378.524	356.783	336.300	322.659	323.714
147.0	555.368	536.186	492.287	434.164	381.926	360.185	339.805	326.094	327.251
147.5	556.812	537.769	493.738	435.962	385.023	363.657	343.173	329.565	330.654
148.0	556.825	537.921	495.494	438.066	388.425	367.025	346.576	333.035	334.226
148.5	556.943	538.754	496.570	440.850	391.522	370.087	350.013	336.506	337.697
149.0	557.977	540.302	498.326	443.294	394.959	373.184	353.380	339.908	341.235
149.5	558.504	539.774	499.402	445.092	398.022	376.621	356.783	343.208	344.638
150.0	558.823	541.252	501.159	447.911	401.084	380.024	360.185	346.610	348.381
150.5	559.926	542.085	503.290	450.050	404.146	383.120	363.588	350.353	351.783
151.0	559.974	542.917	503.720	452.529	407.243	386.183	366.685	353.721	355.491
151.5	561.113	543.104	505.817	454.632	410.340	389.585	370.087	357.158	358.929
152.0	561.195	543.632	506.587	457.111	413.437	392.682	373.489	360.526	362.636
152.5	560.903	544.464	508.038	458.910	416.499	395.744	376.927	363.928	366.074
153.0	560.986	544.617	509.489	461.388	419.256	398.841	379.954	366.990	369.476
153.5	562.089	545.484	510.565	463.527	420.991	401.903	383.391	370.733	372.878
154.0	561.492	546.011	511.335	466.006	424.394	405.340	386.453	374.100	376.656
154.5	562.255	546.198	512.036	467.804	426.776	408.062	389.856	377.503	380.093
155.0	562.984	546.691	513.418	469.602	428.852	411.194	392.953	380.565	383.461
155.5	562.761	546.572	514.389	471.775	431.268	414.221	396.355	383.967	386.898
156.0	561.788	547.099	515.021	473.539	434.330	417.353	399.452	387.370	390.266
156.5	562.551	547.661	515.722	475.712	436.747	419.054	402.514	390.738	393.328
157.0	562.905	547.473	516.763	477.545	439.504	422.151	405.576	393.800	396.765
157.5	561.342	547.695	517.464	478.968	441.885	424.873	409.014	397.202	400.167
158.0	561.445	546.896	518.269	480.767	444.302	427.595	412.076	400.605	403.570
158.5	560.534	547.118	518.734	482.260	447.024	429.671	414.798	403.667	406.632
159.0	559.596	547.340	519.539	484.058	449.440	432.393	416.839	406.729	410.034
159.5	560.499	547.527	520.004	485.891	451.481	435.455	420.957	410.131	413.096
160.0	559.387	547.339	520.503	487.349	454.238	437.872	422.658	413.194	416.499
160.5	558.588	547.116	521.343	488.501	456.314	440.628	425.755	416.256	419.596
161.0	558.872	547.164	521.843	489.994	458.016	443.010	428.137	418.637	422.963
161.5	558.212	545.920	522.648	491.452	460.737	445.732	430.213	421.700	425.685
162.0	557.760	545.392	521.822	492.945	462.439	448.149	433.275	424.762	426.977
162.5	556.482	544.558	523.002	493.417	465.195	450.905	435.657	427.143	429.970
163.0	556.121	545.120	522.856	495.250	466.931	453.627	439.094	429.525	432.587
163.5	555.488	544.016	523.050	496.028	469.313	455.703	441.475	432.587	435.615
164.0	555.675	544.002	523.549	497.180	471.014	457.745	443.857	435.309	438.302
164.5	554.571	542.932	523.403	497.958	473.090	460.126	446.954	438.406	441.975
165.0	553.501	542.883	523.597	499.110	475.132	462.848	449.676	440.788	444.697
165.5	551.751	541.133	523.486	500.228	477.208	464.584	451.717	443.170	447.079
166.0	551.736	540.473	523.305	501.381	478.909	466.626	454.134	446.232	450.412
166.5	550.972	539.778	523.534	502.533	480.270	469.042	456.821	448.954	453.474

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	550.138	539.083	523.082	502.359	482.006	470.743	459.578	451.370	456.196
167.5	548.659	537.777	522.971	503.206	483.402	472.785	461.279	454.467	458.577
168.0	546.297	536.777	522.860	504.053	485.103	474.861	464.036	457.189	461.334
168.5	545.943	535.978	522.748	504.935	486.804	476.903	466.792	459.946	464.021
169.0	543.887	534.804	521.956	504.421	488.540	478.944	468.459	461.987	466.368
169.5	542.852	533.533	521.845	505.574	489.526	480.305	471.181	465.049	468.375
170.0	541.817	532.227	521.393	505.775	490.547	482.381	473.257	467.091	471.097
170.5	540.817	531.636	520.296	506.317	491.602	484.082	474.993	469.507	473.513
171.0	538.726	530.400	520.560	506.553	492.283	485.784	476.729	471.889	475.590
171.5	537.080	529.164	519.087	506.789	494.019	486.839	478.805	474.340	478.312
172.0	536.184	527.622	519.045	507.330	495.415	488.540	480.846	475.701	480.283
172.5	534.573	526.115	517.948	507.226	496.401	490.241	482.888	478.423	482.971
173.0	532.316	524.879	516.920	507.156	497.116	491.943	484.929	480.464	484.297
173.5	531.114	523.337	516.608	507.767	497.761	492.623	486.631	482.166	486.713
174.0	529.843	522.135	515.239	507.698	498.102	494.324	487.992	484.242	489.060
174.5	527.857	519.948	514.281	507.628	499.157	496.026	489.658	486.283	490.081
175.0	525.871	518.441	513.323	506.913	500.178	497.046	491.019	487.950	492.088
175.5	523.919	517.003	512.399	507.594	500.824	497.692	492.755	489.686	493.449
176.0	523.398	515.600	511.510	507.559	501.539	499.088	494.421	491.422	496.205
176.5	520.565	513.586	510.656	507.254	501.844	499.768	496.498	493.158	497.261
177.0	519.093	512.322	509.191	507.254	501.914	500.789	496.838	494.824	498.962
177.5	516.905	510.413	508.781	506.573	502.560	501.129	498.539	496.185	499.948
178.0	514.856	509.253	508.066	506.573	502.900	502.150	499.525	498.261	502.705
178.5	512.676	507.142	507.045	506.233	502.900	503.171	500.546	499.587	504.371
179.0	511.211	506.427	505.684	506.233	503.240	503.511	502.282	500.948	505.052
179.5	509.815	505.101	505.004	505.552	503.240	504.191	502.962	502.004	507.808
180.0	504.524	504.524	504.524	504.524	504.524	504.524	504.524	504.524	504.524

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.32	N.A.	5.50
0-30	397.91	N.A.	11.70
0-40	652.72	N.A.	19.20
0-60	1182.22	N.A.	34.70
0-80	1583.34	N.A.	46.50
0-90	1709.34	N.A.	50.20
10-90	1660.95	N.A.	48.80
20-40	465.40	N.A.	13.70
20-50	735.57	N.A.	21.60
40-70	754.95	N.A.	22.20
60-80	401.12	N.A.	11.80
70-80	175.67	N.A.	5.20
80-90	126.00	N.A.	3.70
90-110	300.54	N.A.	8.80
90-120	524.40	N.A.	15.40
90-130	781.89	N.A.	23.00
90-150	1302.52	N.A.	38.20
90-180	1696.00	N.A.	49.80
110-180	1395.46	N.A.	41.00
0-180	3405.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.39
10-20	138.93
20-30	210.59
30-40	254.81
40-50	270.18
50-60	259.32
60-70	225.45
70-80	175.67
80-90	126.00
90-100	125.82
100-110	174.73
110-120	223.86
120-130	257.49
130-140	268.11
140-150	252.51
150-160	208.35
160-170	137.30
170-180	47.85

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-950U-L19-950D-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	45	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-L19-950U-L19-950D-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	19.0	19.9	20.0	20.9	22.2	13.1	14.0	14.0	15.0	16.2
	3H	22.1	22.9	23.1	23.9	25.2	14.4	15.3	15.4	16.2	17.5
	4H	23.7	24.5	24.7	25.5	26.7	14.9	15.6	15.8	16.6	17.9
	6H	25.4	26.1	26.3	27.1	28.4	15.1	15.8	16.1	16.8	18.1
	8H	26.2	26.9	27.2	27.9	29.3	15.2	15.8	16.1	16.9	18.2
	12H	27.2	27.9	28.2	28.9	30.2	15.2	15.8	16.2	16.8	18.2

UGR Viewed Endwise

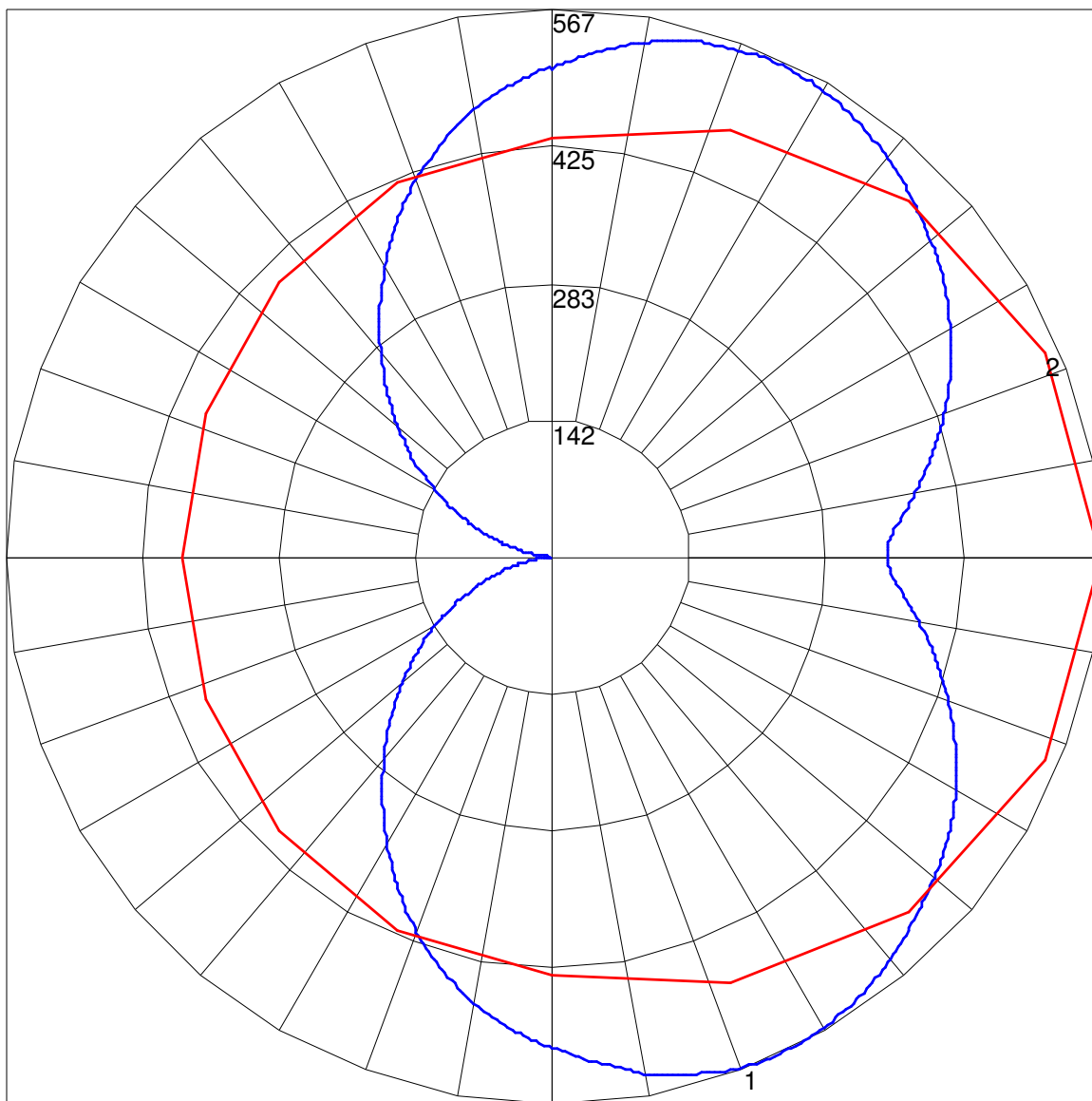
4H	2H	19.3	20.1	20.3	21.1	22.4	14.3	15.1	15.3	16.1	17.4
	3H	22.6	23.3	23.6	24.3	25.6	16.0	16.6	16.9	17.6	18.9
	4H	24.4	25.0	25.4	26.0	27.3	16.5	17.1	17.5	18.1	19.5
	6H	26.3	26.8	27.3	27.8	29.1	16.9	17.4	17.9	18.5	19.8
	8H	27.2	27.7	28.3	28.8	30.1	17.0	17.5	18.0	18.5	19.9
	12H	28.3	28.8	29.4	29.8	31.2	17.0	17.5	18.1	18.5	19.9

8H	4H	24.5	25.0	25.5	26.0	27.4	17.6	18.1	18.6	19.1	20.5
	6H	26.6	27.0	27.6	28.0	29.4	18.3	18.7	19.3	19.7	21.1
	8H	27.7	28.1	28.7	29.1	30.5	18.5	18.9	19.5	19.9	21.3
	12H	29.0	29.3	30.0	30.4	31.8	18.6	18.9	19.6	20.0	21.4

12H	4H	24.5	24.9	25.5	26.0	27.3	18.0	18.4	19.0	19.5	20.8
	6H	26.6	26.9	27.6	28.0	29.4	18.8	19.2	19.8	20.2	21.6
	8H	27.8	28.1	28.8	29.1	30.5	19.1	19.4	20.1	20.5	21.9

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 566.989 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.)