

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-940U-L38-940D-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-L38-940U-L38-940D-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	6566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	65.2
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	18076	17025	16231
55	17969	16270	14823
65	18000	15680	13150
75	18313	15293	10694
85	19250	15591	7086

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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	982.597	982.597	982.597	982.597	982.597	982.597	982.597	982.597	982.597
0.5	983.978	985.618	983.791	987.534	980.836	985.932	979.313	979.261	979.355
1.0	986.657	987.955	987.403	988.335	980.232	984.461	976.503	976.451	976.610
1.5	990.202	991.093	988.466	990.475	980.232	981.716	975.032	973.037	971.921
2.0	993.210	994.967	990.869	990.672	979.496	979.641	972.353	970.292	969.177
2.5	997.556	997.632	994.073	991.539	978.827	978.302	969.674	968.283	966.563
3.0	1000.432	1001.637	996.607	991.735	978.157	976.962	967.665	964.264	963.149
3.5	1004.240	1005.169	998.471	994.007	978.157	974.217	964.316	961.519	961.139
4.0	1009.257	1008.701	1001.675	994.204	976.752	971.538	962.976	958.170	956.451
4.5	1011.529	1011.629	1004.209	993.797	976.082	970.868	959.627	954.821	952.366
5.0	1012.789	1015.292	1006.402	996.003	974.742	967.520	955.608	951.407	948.413
5.5	1017.463	1018.285	1007.123	996.265	972.733	964.171	953.599	948.058	946.404
6.0	1020.602	1020.675	1009.053	995.858	971.328	963.435	950.920	945.313	942.320
6.5	1023.136	1025.204	1011.049	995.516	970.054	960.822	947.440	940.559	938.367
7.0	1025.670	1028.066	1012.375	995.647	969.318	958.681	944.091	936.475	933.612
7.5	1028.256	1030.456	1013.766	995.371	965.904	955.332	940.072	933.126	928.924
8.0	1033.231	1032.175	1015.486	993.624	963.894	951.983	936.723	929.041	924.235
8.5	1037.640	1034.695	1017.205	994.622	963.225	949.974	933.309	925.023	919.613
9.0	1043.665	1037.347	1018.727	993.545	959.876	946.559	929.224	919.599	914.924
9.5	1046.645	1039.657	1019.646	993.873	957.801	942.541	925.206	915.514	913.584
10.0	1049.966	1043.240	1020.499	992.927	955.791	939.796	921.857	911.496	906.217
10.5	1053.222	1045.353	1022.021	991.915	952.442	936.513	917.772	906.742	902.933
11.0	1055.203	1046.862	1022.940	990.299	951.037	933.098	913.018	903.393	898.245
11.5	1056.988	1049.238	1023.188	988.684	947.019	929.079	909.065	897.969	892.217
12.0	1058.104	1050.943	1024.107	988.407	944.339	927.004	904.981	893.280	886.924
12.5	1061.964	1053.988	1024.421	986.792	942.264	921.581	900.292	888.592	882.236
13.0	1064.142	1055.628	1024.866	985.176	939.585	918.232	895.538	883.168	875.669
13.5	1065.848	1057.807	1025.312	984.230	934.897	914.213	891.454	877.744	871.782
14.0	1069.090	1059.185	1025.823	982.680	932.822	908.789	885.426	872.386	865.950
14.5	1071.334	1060.628	1024.863	980.329	929.473	905.440	880.672	867.027	859.988
15.0	1071.372	1061.336	1025.177	978.778	924.719	901.356	875.983	861.669	854.025
15.5	1072.763	1062.109	1025.084	975.758	920.700	897.271	870.559	855.641	850.676
16.0	1073.354	1063.552	1024.321	973.275	917.286	892.583	866.475	850.283	842.573
16.5	1076.240	1064.995	1025.567	972.395	913.937	887.894	861.117	845.594	838.555
17.0	1079.403	1064.429	1025.474	969.374	910.588	882.471	856.363	839.501	834.602
17.5	1079.900	1066.608	1024.646	965.618	905.834	879.056	850.269	835.416	827.838
18.0	1081.802	1066.042	1023.817	964.067	901.145	872.293	844.241	829.388	823.150
18.5	1084.375	1066.881	1022.792	961.178	896.391	868.274	841.496	826.039	817.056
19.0	1083.729	1067.720	1022.567	959.089	892.372	862.850	836.138	820.011	811.028
19.5	1086.760	1067.823	1020.872	956.396	887.618	858.766	830.044	813.983	804.264
20.0	1088.255	1067.388	1020.648	952.837	883.600	853.407	827.365	807.955	798.236
20.5	1088.687	1068.227	1018.349	949.947	879.515	847.983	821.271	801.861	791.473
21.0	1089.053	1067.727	1017.454	945.980	873.487	842.625	815.243	795.833	785.445
21.5	1090.154	1068.027	1015.825	943.957	869.403	839.880	809.885	789.135	778.747
22.0	1091.584	1067.789	1014.261	941.329	864.045	833.183	803.791	783.107	771.983
22.5	1092.409	1067.551	1012.631	937.901	858.621	828.363	797.698	777.079	765.955
23.0	1091.829	1067.917	1011.067	934.407	853.867	821.665	791.670	770.381	759.192
23.5	1091.985	1067.206	1010.108	929.574	847.838	818.986	785.576	763.684	752.494
24.0	1092.744	1067.099	1007.874	927.012	843.820	813.562	779.482	757.590	745.126
24.5	1093.176	1066.861	1006.310	923.111	837.726	807.534	773.454	750.958	739.098
25.0	1092.268	1066.688	1003.406	920.287	835.717	801.375	767.361	744.194	732.335
25.5	1090.690	1065.176	1001.843	916.858	830.963	795.347	761.332	737.496	724.967
26.0	1091.122	1064.807	999.609	911.421	826.274	789.253	754.569	731.468	718.874
26.5	1090.279	1063.098	997.441	907.257	820.180	783.225	748.475	724.770	711.440

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CANDELA TABULATION - (Cont.)

27.0	1088.767	1062.059	996.008	903.829	814.087	777.066	741.778	718.073	704.742
27.5	1088.726	1061.689	991.962	900.400	808.663	771.037	735.684	711.309	697.979
28.0	1089.158	1059.980	989.321	894.227	802.635	764.274	729.590	704.611	690.611
28.5	1087.383	1058.271	987.284	891.403	797.277	758.246	722.892	697.913	683.848
29.0	1085.936	1057.902	985.247	885.965	790.579	752.152	716.194	690.546	677.150
29.5	1085.633	1054.853	982.671	880.396	784.485	745.454	709.431	683.848	670.117
30.0	1085.118	1053.013	979.964	876.903	778.391	738.625	703.403	677.084	663.154
30.5	1083.409	1051.501	977.258	872.135	772.363	732.597	696.639	670.320	656.455
31.0	1083.171	1050.462	974.617	867.236	766.335	725.834	689.942	663.555	649.491
31.5	1081.725	1049.292	970.570	865.081	760.242	719.136	683.244	656.924	642.593
32.0	1079.477	1047.583	968.599	859.512	753.544	713.042	676.480	650.024	635.961
32.5	1079.909	1045.204	965.157	856.688	747.450	706.279	669.715	643.326	628.931
33.0	1076.256	1044.231	962.319	851.920	741.422	699.581	662.951	636.295	621.898
33.5	1076.885	1041.116	958.811	846.417	734.658	692.818	656.253	629.530	615.133
34.0	1075.977	1038.803	954.634	841.584	727.961	686.120	649.489	622.899	608.102
34.5	1073.860	1036.425	950.456	836.015	721.197	680.026	642.724	616.000	601.270
35.0	1071.350	1034.046	947.684	830.511	714.499	673.127	636.094	609.235	594.639
35.5	1069.773	1032.403	944.780	825.678	708.471	666.364	629.463	602.403	587.674
36.0	1067.249	1028.684	940.734	820.175	701.773	659.599	622.698	595.706	580.709
36.5	1065.802	1026.306	937.896	814.671	694.406	652.835	615.666	589.142	573.810
37.0	1063.489	1024.662	932.983	809.103	687.642	646.272	609.103	582.244	566.845
37.5	1061.439	1021.010	928.740	803.599	680.944	639.307	602.405	575.278	560.282
38.0	1060.596	1017.961	926.034	798.096	674.247	632.542	595.573	568.715	553.184
38.5	1056.405	1015.648	920.517	792.593	667.416	625.644	588.875	561.884	546.151
39.0	1054.354	1014.005	916.943	786.420	660.450	619.014	582.043	555.186	539.319
39.5	1051.437	1010.286	917.454	780.851	653.686	612.249	575.479	548.354	532.554
40.0	1050.660	1007.973	913.342	775.348	646.720	605.283	568.850	541.658	525.990
40.5	1046.600	1005.529	909.230	769.174	639.755	598.520	561.951	534.959	519.226
41.0	1043.552	1002.007	904.987	763.606	632.991	591.755	555.253	528.195	512.330
41.5	1040.161	998.959	900.875	757.564	625.891	584.724	548.421	521.631	505.697
42.0	1039.319	996.515	895.963	752.126	618.992	578.292	541.725	514.801	499.068
42.5	1036.533	993.532	891.785	746.688	612.026	571.462	534.960	507.969	492.503
43.0	1033.077	988.474	887.476	741.382	605.062	564.563	528.262	501.539	485.540
43.5	1031.434	986.095	883.365	735.340	597.761	557.664	521.363	494.642	479.041
44.0	1027.912	983.047	878.583	729.298	590.929	550.901	514.465	487.877	472.678
44.5	1025.126	980.064	873.604	723.191	583.830	544.203	507.701	481.247	466.049
45.0	1023.075	977.685	869.493	717.687	576.864	537.105	501.003	474.416	459.552
45.5	1018.687	973.362	864.645	711.648	569.899	530.272	494.038	467.852	452.721
46.0	1018.384	970.380	859.798	705.676	562.800	523.373	487.340	461.221	446.158
46.5	1014.323	968.671	855.620	699.636	555.766	516.542	480.441	454.457	439.862
47.0	1012.811	967.632	850.773	693.463	548.466	509.711	473.676	447.959	433.500
47.5	1010.564	964.845	845.860	687.622	541.233	502.745	466.913	441.263	426.735
48.0	1007.843	960.930	841.210	681.781	534.066	495.579	460.280	434.900	420.171
48.5	1003.455	957.409	836.166	675.873	527.033	488.614	453.383	428.270	413.674
49.0	1000.735	953.691	831.384	669.764	520.002	481.715	446.618	421.840	407.043
49.5	998.080	949.972	826.471	663.657	512.902	474.950	439.987	415.345	400.747
50.0	998.446	947.055	821.558	657.683	505.735	468.053	433.358	408.848	394.117
50.5	993.650	943.337	816.777	651.511	498.636	460.953	426.526	402.684	387.688
51.0	992.742	939.750	811.995	645.539	491.603	454.121	419.895	396.122	381.192
51.5	989.418	936.097	806.412	639.365	484.570	447.088	413.130	389.625	374.896
52.0	986.093	931.709	801.434	632.925	477.403	440.323	406.633	383.263	368.734
52.5	983.241	928.056	796.652	626.886	470.371	433.493	400.004	376.900	362.304
53.0	979.720	924.272	791.135	620.579	463.271	426.527	393.306	370.537	355.808
53.5	976.198	920.685	786.155	614.341	456.372	419.495	386.608	364.241	349.312
54.0	972.939	916.901	780.975	607.967	449.207	412.730	379.977	357.744	343.550
54.5	969.418	912.776	775.591	601.526	442.308	406.032	373.415	351.517	337.190

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CANDELA TABULATION - (Cont.)

55.0	966.028	908.992	770.478	595.287	435.275	399.067	366.784	345.087	330.759
55.5	962.572	904.604	765.428	588.779	428.309	392.036	360.221	338.724	324.597
56.0	959.181	900.951	760.180	582.473	421.210	385.270	353.723	332.629	318.101
56.5	955.922	896.563	754.730	575.898	414.176	378.372	346.959	326.065	312.140
57.0	952.466	892.976	749.350	569.390	407.077	371.606	340.662	320.038	306.245
57.5	948.341	888.653	744.165	562.884	400.110	364.576	334.234	313.541	299.749
58.0	944.688	884.200	738.850	556.175	392.878	357.743	327.603	307.446	293.520
58.5	941.429	879.877	733.404	549.668	385.778	350.978	321.240	301.217	287.224
59.0	937.973	875.686	727.755	542.960	378.544	344.148	314.877	294.921	281.263
59.5	933.913	871.167	722.503	536.252	371.244	337.249	308.581	288.826	275.168
60.0	929.525	866.779	716.854	529.745	364.077	330.285	302.285	282.664	269.006
60.5	925.530	862.456	711.607	523.239	356.977	323.453	295.856	276.569	262.844
61.0	922.075	858.065	706.158	516.865	349.945	316.554	289.426	270.407	256.749
61.5	917.883	853.677	700.709	510.291	342.778	309.856	282.996	264.245	250.587
62.0	913.022	849.021	694.993	503.582	335.744	302.959	276.834	258.084	244.693
62.5	908.897	844.429	689.608	497.009	328.510	296.194	270.404	251.855	238.464
63.0	904.771	840.039	684.229	490.435	321.544	289.228	263.976	245.760	232.503
63.5	900.645	835.182	678.780	483.860	314.445	282.329	257.678	239.731	226.341
64.0	896.585	830.459	673.064	477.287	307.345	275.765	251.315	233.502	220.582
64.5	891.790	825.803	667.684	470.713	300.313	268.934	244.819	227.407	215.021
65.0	887.197	821.147	661.767	463.872	293.214	262.236	238.322	221.379	208.792
65.5	882.539	816.223	656.317	457.097	286.047	255.404	232.093	215.284	202.898
66.0	878.012	811.164	650.802	450.525	279.080	248.573	225.596	209.323	197.138
66.5	873.749	806.308	644.954	443.885	272.115	241.742	219.368	203.161	191.378
67.0	868.954	801.450	639.504	437.244	265.148	235.044	213.272	197.267	185.819
67.5	864.294	796.591	633.653	430.403	258.181	228.480	207.043	191.305	179.992
68.0	859.699	791.536	627.939	423.630	250.882	221.983	200.748	185.411	174.030
68.5	854.837	786.477	622.291	416.922	243.849	215.151	194.452	179.517	168.136
69.0	850.580	781.488	616.373	410.350	236.950	208.654	188.223	173.623	162.711
69.5	845.784	776.631	610.858	403.843	230.052	201.956	182.328	167.863	157.085
70.0	841.255	771.570	604.943	397.337	223.086	195.459	176.234	162.103	151.457
70.5	836.593	766.447	599.226	390.763	216.188	188.830	170.206	156.209	145.632
71.0	832.065	761.387	593.444	383.993	209.221	182.400	164.178	150.649	140.005
71.5	827.468	756.328	587.397	377.488	202.657	175.970	158.285	145.090	134.446
72.0	822.478	750.939	581.747	371.182	195.824	169.540	152.389	139.531	129.354
72.5	817.747	746.013	575.965	364.744	188.525	163.177	146.562	134.173	123.661
73.0	812.823	740.822	570.317	358.505	181.960	156.948	140.869	128.546	118.303
73.5	808.026	735.498	564.604	352.066	175.196	150.920	135.109	123.054	112.811
74.0	803.296	730.373	558.689	345.629	168.564	144.825	129.416	117.829	107.588
74.5	798.172	724.986	552.973	339.259	162.134	138.797	123.857	112.537	102.698
75.0	793.309	719.861	546.995	333.086	155.637	132.769	118.364	107.314	97.407
75.5	788.315	714.537	541.283	326.650	149.273	126.875	112.871	101.956	92.382
76.0	783.256	709.413	535.835	320.347	142.910	121.115	107.313	96.933	87.493
76.5	778.190	704.023	529.990	314.374	136.547	115.421	101.821	91.708	82.672
77.0	773.064	698.968	524.278	308.005	130.383	109.728	96.729	86.819	78.183
77.5	767.936	693.646	518.567	302.100	124.087	104.102	91.439	81.862	73.494
78.0	762.944	688.524	513.054	296.065	118.193	98.476	86.282	77.107	68.940
78.5	757.549	683.206	507.606	290.361	112.232	92.984	81.191	72.417	64.385
79.0	752.491	677.751	502.029	284.328	106.471	87.692	76.168	67.729	59.764
79.5	747.363	672.631	496.583	278.492	100.643	82.468	71.277	63.040	55.544
80.0	742.107	667.443	491.075	272.727	94.882	77.376	66.522	58.619	51.257
80.5	736.848	662.192	485.563	267.292	89.323	72.286	61.833	54.199	47.105
81.0	731.923	657.139	480.453	261.858	83.963	67.329	57.279	49.912	42.818
81.5	726.864	651.684	475.145	256.426	78.739	62.573	52.790	45.693	38.665
82.0	721.739	646.632	470.036	250.994	73.581	57.884	48.303	41.540	34.782
82.5	717.144	642.049	464.996	245.761	68.424	53.397	44.149	37.721	31.095

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CANDELA TABULATION - (Cont.)

83.0	712.156	637.129	459.822	240.862	63.468	48.842	39.997	33.836	27.279
83.5	707.435	632.142	454.782	236.030	58.712	44.420	36.045	30.018	23.595
84.0	702.844	627.425	450.010	231.202	54.091	40.200	32.160	26.334	19.977
84.5	698.120	622.575	445.172	226.373	49.536	36.115	28.208	22.651	16.629
85.0	693.663	617.658	440.402	221.811	45.115	32.163	24.458	19.235	13.614
85.5	689.273	613.140	435.429	217.250	40.762	28.211	20.839	15.953	10.935
86.0	684.886	608.819	430.658	212.889	36.542	24.393	17.357	13.006	8.992
86.5	680.824	604.891	426.354	208.529	32.456	20.708	14.008	10.727	7.652
87.0	677.091	602.149	422.109	204.502	28.572	17.091	11.061	8.919	6.781
87.5	674.407	600.063	418.921	200.342	24.687	13.607	8.983	7.779	6.244
88.0	673.108	599.096	416.649	196.248	20.735	10.191	7.509	6.975	5.973
88.5	672.130	598.389	415.228	192.678	16.783	7.378	6.704	6.372	5.639
89.0	671.549	598.211	414.865	190.225	12.763	6.039	6.235	6.170	5.571
89.5	671.432	598.100	414.566	189.413	9.345	5.568	6.034	5.969	5.504
90.0	671.509	598.054	414.601	189.460	7.993	5.434	5.966	5.967	5.570
90.5	670.992	598.210	414.640	189.840	9.495	5.433	5.965	5.966	5.501
91.0	671.273	598.700	415.140	191.623	12.773	5.497	5.898	6.032	5.501
91.5	671.421	599.590	416.244	194.747	16.709	6.547	5.963	5.965	5.434
92.0	672.237	601.014	418.751	198.475	20.514	8.448	6.160	5.898	5.566
92.5	673.119	603.438	422.194	202.204	24.186	11.531	6.684	6.094	5.697
93.0	674.938	606.469	426.303	206.528	27.858	15.139	7.995	6.357	6.156
93.5	677.292	610.298	430.680	210.387	31.663	18.747	10.226	7.077	7.206
94.0	680.782	614.662	435.186	214.774	35.665	22.421	13.243	8.520	9.239
94.5	685.007	619.094	439.425	219.095	39.732	25.962	16.720	10.818	12.060
95.0	689.432	623.853	444.396	223.414	43.930	29.832	20.261	13.571	15.207
95.5	693.857	628.680	449.165	227.932	48.260	33.769	23.935	16.917	18.817
96.0	698.482	633.174	453.866	232.580	52.721	37.704	27.872	20.526	22.359
96.5	702.972	637.799	458.701	237.427	57.311	41.837	31.743	24.133	26.164
97.0	707.528	642.494	463.536	242.339	62.035	45.970	35.744	27.938	30.034
97.5	712.217	647.315	468.437	247.249	66.956	50.365	39.811	31.941	33.839
98.0	716.769	652.138	473.341	252.488	71.809	54.826	43.879	35.811	37.708
98.5	721.587	657.092	478.505	257.793	76.993	59.418	48.141	39.877	41.908
99.0	726.339	662.112	483.670	263.030	82.372	64.338	52.538	44.010	46.106
99.5	731.092	666.999	488.898	268.532	87.750	69.192	57.063	48.341	50.503
100.0	735.842	672.019	494.260	274.097	93.260	74.309	61.589	52.670	54.700
100.5	740.594	677.102	499.552	279.664	98.902	79.426	66.312	57.000	59.161
101.0	745.609	682.055	504.979	285.427	104.676	84.542	71.234	61.461	63.556
101.5	750.228	687.003	510.336	291.124	110.513	90.054	76.088	65.987	68.213
102.0	755.241	692.157	515.957	296.953	116.483	95.168	81.139	70.645	73.004
102.5	760.057	697.108	521.380	302.715	122.452	100.942	86.191	75.434	77.727
103.0	765.008	702.190	526.868	308.543	128.686	107.765	91.373	80.222	82.581
103.5	769.953	707.208	532.422	314.502	134.983	113.406	96.621	85.142	87.370
104.0	774.906	712.224	538.043	320.593	141.150	118.194	101.869	90.129	92.487
104.5	779.717	717.506	543.594	326.552	147.447	124.230	107.379	95.245	97.604
105.0	784.798	722.457	549.083	332.510	154.007	130.003	112.826	100.429	102.786
105.5	789.152	727.539	554.767	338.601	160.503	136.104	118.335	105.611	107.968
106.0	794.163	732.621	560.253	344.757	167.062	142.926	123.978	110.859	113.283
106.5	798.848	737.506	565.740	350.979	173.820	150.011	129.685	116.174	118.530
107.0	803.729	742.522	571.293	357.003	180.445	155.193	135.326	121.617	124.239
107.5	808.611	747.603	576.780	363.226	187.202	160.769	141.230	126.997	129.552
108.0	813.294	752.553	582.466	369.578	193.960	167.067	147.003	132.771	135.128
108.5	817.910	757.503	588.085	375.931	200.848	173.497	152.841	138.280	140.640
109.0	822.857	762.256	593.639	382.218	207.671	179.859	158.877	144.054	146.281
109.5	827.408	767.539	599.190	388.439	214.493	186.289	164.848	149.630	151.857
110.0	832.157	772.158	604.612	394.924	221.447	192.784	170.752	155.403	157.697
110.5	836.774	777.110	609.836	401.276	228.400	199.278	176.852	161.175	163.404

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CANDELA TABULATION - (Cont.)

111.0	841.457	781.732	615.321	407.629	235.419	205.839	182.953	167.015	169.243
111.5	846.012	786.551	620.877	414.114	242.439	212.399	188.988	172.919	174.819
112.0	850.366	791.372	626.295	420.532	249.458	219.025	195.220	178.823	180.459
112.5	855.049	796.126	631.849	427.081	256.675	225.782	201.518	184.662	186.233
113.0	859.269	800.881	637.337	433.499	263.629	232.539	207.684	190.500	192.137
113.5	863.888	805.569	642.756	440.180	270.648	239.362	214.048	196.535	198.172
114.0	868.306	810.057	648.176	446.598	277.864	246.053	220.543	202.505	204.076
114.5	872.660	814.679	653.597	453.081	284.818	252.941	228.283	208.673	209.980
115.0	876.752	819.369	659.019	459.632	291.904	259.765	236.548	214.773	216.017
115.5	880.911	823.991	664.373	466.115	299.054	266.719	242.452	220.743	221.855
116.0	885.395	828.283	669.861	472.598	306.204	273.541	246.521	226.844	228.219
116.5	889.424	832.908	675.016	479.083	313.224	280.364	252.163	232.945	234.188
117.0	893.907	837.531	680.570	485.632	320.375	287.448	259.642	239.177	240.422
117.5	897.869	841.756	685.792	492.050	327.657	294.207	268.039	245.146	246.324
118.0	901.830	846.311	691.081	498.600	334.611	301.291	274.729	251.445	252.492
118.5	905.591	850.540	696.633	505.016	341.827	308.246	279.324	257.413	258.593
119.0	909.620	854.636	701.792	511.567	348.978	315.069	284.440	263.843	264.892
119.5	913.648	859.388	707.080	517.985	356.129	321.826	290.738	270.010	270.794
120.0	917.476	863.684	712.303	524.337	363.412	328.714	297.167	276.307	277.356
120.5	921.371	867.847	717.526	530.558	370.497	335.734	303.661	282.541	283.391
121.0	925.265	871.942	722.816	537.041	377.385	342.556	310.090	288.904	289.559
121.5	929.227	876.239	727.908	543.326	384.601	349.313	316.519	296.448	295.725
122.0	932.465	880.401	733.133	549.811	391.751	356.137	323.211	305.043	302.023
122.5	936.494	883.774	738.158	556.098	398.770	362.894	329.640	312.389	308.386
123.0	940.456	888.070	743.315	562.383	405.856	369.849	336.202	317.245	314.683
123.5	944.417	892.099	748.541	568.604	413.007	376.606	342.762	323.083	321.178
124.0	947.723	895.673	753.763	574.825	419.960	383.494	349.389	330.694	329.904
124.5	951.685	899.768	758.787	581.177	427.112	390.449	355.949	337.123	341.254
125.0	955.124	903.998	764.013	587.462	434.066	397.074	362.640	341.452	348.534
125.5	958.363	907.504	769.169	593.750	441.216	403.962	369.201	346.046	351.947
126.0	962.257	911.667	774.000	599.773	448.170	410.785	375.827	352.145	353.128
126.5	965.496	915.307	779.153	605.928	455.123	417.477	382.321	358.444	358.638
127.0	968.936	919.470	784.641	612.083	462.209	424.431	388.881	364.809	364.936
127.5	972.308	922.976	789.340	618.042	469.229	431.187	395.508	371.106	371.300
128.0	975.547	926.550	793.904	624.262	476.117	438.141	402.201	377.469	377.795
128.5	978.919	930.712	799.326	630.417	483.268	445.096	408.562	383.900	384.158
129.0	982.292	934.286	804.024	636.441	490.353	451.853	415.452	390.458	390.652
129.5	982.251	937.793	808.722	642.531	497.372	458.675	422.209	396.823	397.147
130.0	985.690	941.299	814.144	648.621	504.326	465.498	428.900	403.186	403.642
130.5	987.751	944.806	818.775	654.776	511.281	472.453	435.592	409.549	410.202
131.0	990.989	947.589	823.474	660.733	518.366	479.275	442.085	415.979	416.631
131.5	991.805	950.641	828.172	666.757	525.516	486.032	448.712	422.539	423.127
132.0	996.945	953.491	832.870	672.716	532.535	492.789	455.535	429.034	429.818
132.5	1000.384	956.275	837.569	678.674	539.687	499.678	462.160	435.528	436.310
133.0	1001.856	958.670	842.267	684.502	546.772	506.435	469.048	441.893	442.808
133.5	1005.094	960.865	846.965	690.525	553.661	513.324	475.674	449.240	449.303
134.0	1009.779	965.094	851.597	696.616	560.615	520.212	482.498	455.669	455.995
134.5	1011.184	967.945	855.639	702.573	567.634	526.903	489.254	462.230	462.423
135.0	1014.489	972.174	860.338	708.664	574.653	533.922	495.879	468.856	469.313
135.5	1018.585	974.302	865.036	713.965	581.674	540.810	502.704	475.548	475.675
136.0	1019.922	977.220	869.533	720.056	588.627	547.700	509.329	481.910	482.368
136.5	1024.540	980.137	873.710	725.947	595.515	554.324	516.021	488.537	488.728
137.0	1024.633	983.577	877.685	731.971	602.536	561.278	522.777	495.033	495.686
137.5	1028.460	987.150	882.451	737.406	609.360	568.235	529.272	501.524	502.246
138.0	1029.865	989.345	884.980	743.229	616.243	574.922	535.893	508.017	508.401
138.5	1033.893	993.574	888.433	748.597	622.870	581.679	542.653	514.908	515.426

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CANDELA TABULATION - (Cont.)

139.0	1036.155	995.180	893.132	754.555	629.693	588.239	549.278	521.403	522.119
139.5	1038.015	997.963	896.451	759.789	636.584	595.129	555.905	528.029	528.746
140.0	1040.075	1000.948	900.560	765.090	643.340	601.689	562.334	534.524	535.307
140.5	1043.515	1003.932	902.635	770.980	650.164	608.512	569.158	541.348	542.393
141.0	1045.508	1006.783	906.021	776.214	657.119	615.139	575.915	548.301	549.347
141.5	1048.225	1007.799	910.720	782.105	664.007	621.830	582.540	555.124	556.104
142.0	1049.764	1011.440	914.039	787.406	670.567	628.522	589.164	561.946	562.926
142.5	1051.824	1014.290	918.148	792.640	677.127	635.082	595.724	568.440	569.748
143.0	1055.063	1016.418	921.468	798.008	683.687	641.773	602.284	575.000	576.505
143.5	1057.846	1018.024	924.854	803.376	690.903	648.595	609.107	581.954	583.329
144.0	1056.627	1020.352	928.896	808.744	697.530	655.286	615.665	588.775	590.150
144.5	1060.201	1023.337	932.283	814.046	704.157	661.584	622.358	595.532	596.972
145.0	1063.506	1025.598	935.013	818.825	710.717	668.144	628.918	602.092	604.058
145.5	1063.666	1027.860	939.712	824.193	717.277	674.771	635.477	608.849	610.618
146.0	1065.659	1029.331	942.375	828.972	723.248	681.331	641.905	615.409	617.375
146.5	1069.300	1032.316	945.828	832.372	729.808	687.891	648.400	622.098	624.132
147.0	1070.771	1033.787	949.148	837.084	736.368	694.451	655.157	628.723	630.953
147.5	1073.555	1036.839	951.945	840.552	742.339	701.145	661.651	635.414	637.513
148.0	1073.581	1037.132	955.332	844.608	748.899	707.638	668.211	642.105	644.401
148.5	1073.807	1038.738	957.406	849.976	754.870	713.542	674.838	648.796	651.094
149.0	1075.801	1041.722	960.792	854.688	761.497	719.513	681.331	655.355	657.915
149.5	1076.817	1040.704	962.867	858.155	767.401	726.140	687.891	661.718	664.476
150.0	1077.432	1043.554	966.253	863.590	773.305	732.700	694.451	668.278	671.692
150.5	1079.560	1045.160	970.362	867.713	779.209	738.671	701.011	675.494	678.252
151.0	1079.652	1046.766	971.192	872.493	785.180	744.575	706.982	681.987	685.401
151.5	1081.847	1047.126	975.234	876.549	791.151	751.135	713.542	688.614	692.028
152.0	1082.006	1048.143	976.720	881.328	797.122	757.106	720.102	695.107	699.177
152.5	1081.443	1049.748	979.517	884.795	803.026	763.010	726.729	701.667	705.804
153.0	1081.602	1050.042	982.314	889.574	808.341	768.981	732.566	707.571	712.364
153.5	1083.730	1051.714	984.389	893.697	811.688	774.885	739.193	714.787	718.924
154.0	1082.578	1052.731	985.874	898.476	818.248	781.512	745.097	721.280	726.207
154.5	1084.049	1053.091	987.225	901.944	822.840	786.760	751.657	727.840	732.834
155.0	1085.454	1054.041	989.889	905.411	826.843	792.798	757.628	733.744	739.327
155.5	1085.024	1053.812	991.762	909.601	831.502	798.635	764.188	740.304	745.954
156.0	1083.149	1054.829	992.980	913.001	837.406	804.673	770.159	746.864	752.447
156.5	1084.620	1055.912	994.331	917.191	842.065	807.953	776.063	753.357	758.351
157.0	1085.302	1055.550	996.338	920.725	847.380	813.924	781.967	759.261	764.978
157.5	1082.288	1055.977	997.690	923.470	851.972	819.172	788.594	765.821	771.538
158.0	1082.487	1054.437	999.242	926.937	856.631	824.420	794.498	772.381	778.098
158.5	1080.732	1054.864	1000.139	929.815	861.879	828.423	799.746	778.285	784.002
159.0	1078.923	1055.292	1001.691	933.282	866.537	833.671	803.682	784.189	790.562
159.5	1080.663	1055.652	1002.587	936.816	870.473	839.575	811.621	790.749	796.466
160.0	1078.520	1055.290	1003.551	939.627	875.788	844.234	814.901	796.653	803.026
160.5	1076.979	1054.860	1005.170	941.849	879.791	849.548	820.872	802.557	808.997
161.0	1077.527	1054.953	1006.133	944.727	883.071	854.140	825.464	807.149	815.490
161.5	1076.254	1052.555	1007.686	947.539	888.319	859.388	829.467	813.053	820.738
162.0	1075.383	1051.537	1006.092	950.417	891.599	864.047	835.371	818.957	823.228
162.5	1072.919	1049.929	1008.367	951.327	896.914	869.362	839.963	823.549	828.998
163.0	1072.222	1051.013	1008.085	954.861	900.261	874.610	846.590	828.141	834.045
163.5	1071.002	1048.883	1008.460	956.360	904.853	878.613	851.182	834.045	839.882
164.0	1071.363	1048.856	1009.423	958.582	908.133	882.549	855.774	839.293	845.063
164.5	1069.233	1046.793	1009.141	960.081	912.136	887.141	861.745	845.264	852.145
165.0	1067.171	1046.699	1009.516	962.303	916.072	892.389	866.993	849.856	857.393
165.5	1063.796	1043.324	1009.301	964.459	920.075	895.736	870.929	854.448	861.985
166.0	1063.769	1042.052	1008.952	966.681	923.355	899.672	875.588	860.352	868.411
166.5	1062.295	1040.712	1009.394	968.903	925.979	904.331	880.769	865.600	874.315

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167.0	1060.688	1039.372	1008.523	968.568	929.326	907.611	886.084	870.259	879.563
167.5	1057.835	1036.855	1008.308	970.201	932.017	911.547	889.364	876.230	884.155
168.0	1053.282	1034.926	1008.093	971.834	935.297	915.550	894.678	881.478	889.470
168.5	1052.599	1033.386	1007.879	973.534	938.577	919.486	899.993	886.793	894.651
169.0	1048.635	1031.122	1006.352	972.543	941.924	923.422	903.206	890.729	899.176
169.5	1046.640	1028.672	1006.137	974.766	943.825	926.046	908.454	896.633	903.045
170.0	1044.644	1026.154	1005.267	975.154	945.793	930.049	912.457	900.569	908.293
170.5	1042.716	1025.015	1003.151	976.198	947.828	933.329	915.804	905.228	912.952
171.0	1038.685	1022.632	1003.659	976.653	949.140	936.609	919.151	909.820	916.955
171.5	1035.511	1020.248	1000.820	977.108	952.487	938.644	923.154	914.546	922.203
172.0	1033.784	1017.275	1000.740	978.152	955.178	941.924	927.090	917.170	926.005
172.5	1030.677	1014.370	998.624	977.951	957.079	945.204	931.026	922.418	931.186
173.0	1026.325	1011.986	996.642	977.817	958.458	948.484	934.962	926.354	933.743
173.5	1024.009	1009.013	996.039	978.995	959.703	949.796	938.242	929.634	938.402
174.0	1021.558	1006.697	993.401	978.861	960.359	953.076	940.866	933.637	942.927
174.5	1017.729	1002.479	991.554	978.727	962.394	956.356	944.079	937.573	944.895
175.0	1013.899	999.573	989.706	977.348	964.362	958.324	946.703	940.786	948.764
175.5	1010.136	996.802	987.925	978.660	965.607	959.569	950.050	944.133	951.388
176.0	1009.132	994.097	986.211	978.593	966.986	962.260	953.263	947.480	956.703
176.5	1003.669	990.214	984.564	978.004	967.575	963.572	957.266	950.827	958.738
177.0	1000.830	987.777	981.739	978.004	967.709	965.540	957.922	954.040	962.018
177.5	996.612	984.095	980.949	976.692	968.954	966.196	961.202	956.664	963.919
178.0	992.663	981.859	979.570	976.692	969.610	968.164	963.103	960.666	969.234
178.5	988.459	977.789	977.602	976.036	969.610	970.132	965.071	963.223	972.447
179.0	985.634	976.410	974.978	976.036	970.266	970.788	968.418	965.847	973.759
179.5	982.943	973.853	973.666	974.724	970.266	972.100	969.730	967.882	979.074
180.0	972.742	972.742	972.742	972.742	972.742	972.742	972.742	972.742	972.742

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-3-00-L38-940U-L38-940D-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	361.15	N.A.	5.50
0-30	767.18	N.A.	11.70
0-40	1258.46	N.A.	19.20
0-60	2279.36	N.A.	34.70
0-80	3052.73	N.A.	46.50
0-90	3295.67	N.A.	50.20
10-90	3202.37	N.A.	48.80
20-40	897.31	N.A.	13.70
20-50	1418.22	N.A.	21.60
40-70	1455.57	N.A.	22.20
60-80	773.38	N.A.	11.80
70-80	338.71	N.A.	5.20
80-90	242.93	N.A.	3.70
90-110	579.46	N.A.	8.80
90-120	1011.07	N.A.	15.40
90-130	1507.52	N.A.	23.00
90-150	2511.3	N.A.	38.20
90-180	3269.96	N.A.	49.80
110-180	2690.5	N.A.	41.00
0-180	6565.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.30
10-20	267.86
20-30	406.03
30-40	491.28
40-50	520.91
50-60	499.99
60-70	434.67
70-80	338.71
80-90	242.93
90-100	242.58
100-110	336.88
110-120	431.61
120-130	496.46
130-140	516.93
140-150	486.85
150-160	401.70
160-170	264.71
170-180	92.25

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-940U-L38-940D-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-L38-940U-L38-940D-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

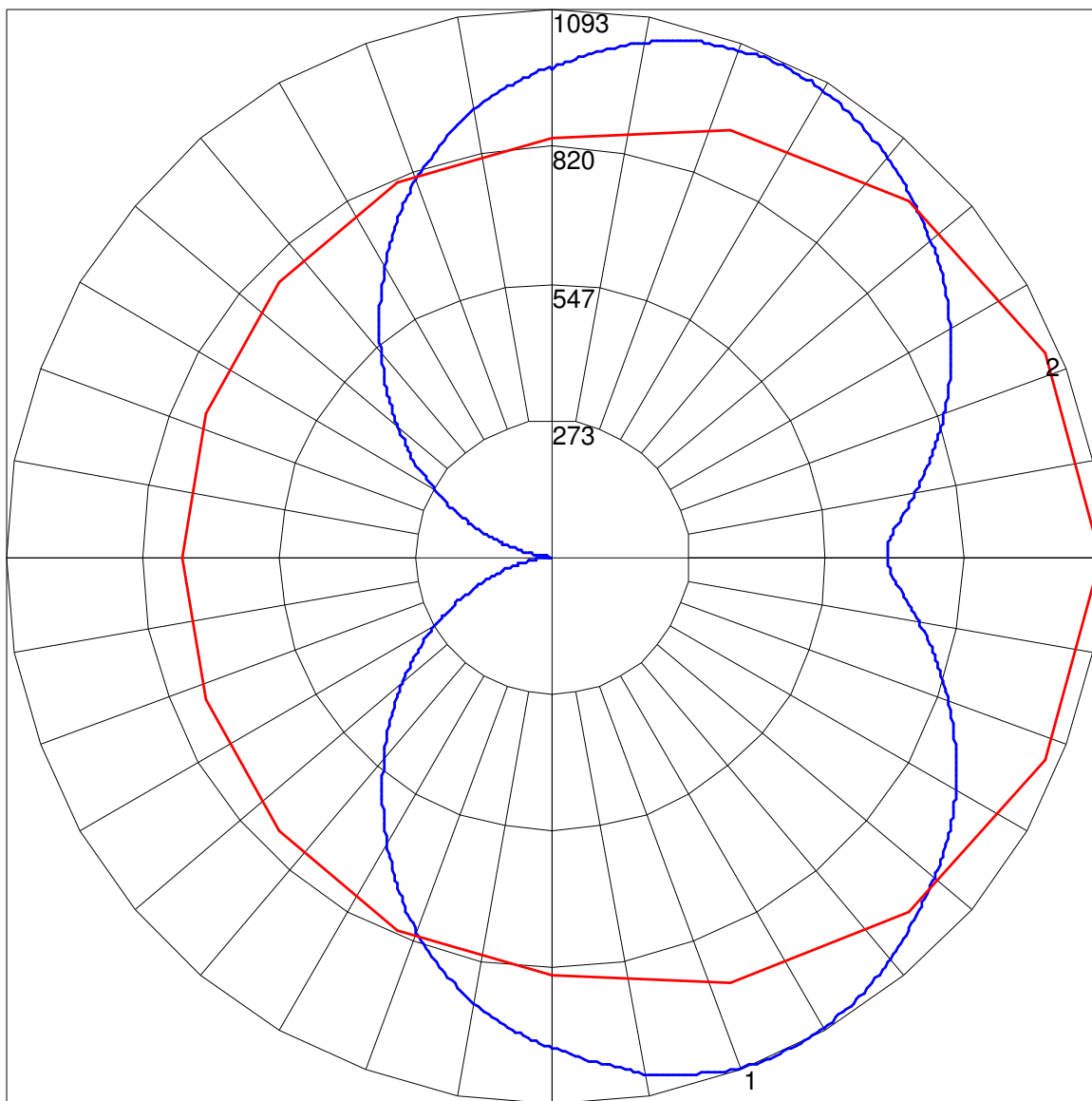
X=2H	Y=2H	21.2	22.1	22.2	23.1	24.4	15.3	16.2	16.2	17.2	18.4
	3H	24.3	25.1	25.3	26.1	27.4	16.6	17.5	17.6	18.4	19.7
	4H	25.9	26.7	26.9	27.7	28.9	17.1	17.8	18.0	18.8	20.1
	6H	27.6	28.3	28.5	29.3	30.6	17.3	18.0	18.3	19.0	20.3
	8H	28.4	29.1	29.4	30.2	31.5	17.4	18.0	18.3	19.1	20.4
	12H	29.4	30.1	30.4	31.1	32.4	17.4	18.0	18.4	19.0	20.4

UGR Viewed Endwise

4H	2H	21.5	22.3	22.5	23.3	24.6	16.5	17.3	17.5	18.3	19.6
	3H	24.8	25.5	25.8	26.5	27.8	18.2	18.8	19.1	19.8	21.1
	4H	26.6	27.2	27.6	28.2	29.5	18.7	19.3	19.7	20.3	21.7
	6H	28.5	29.0	29.5	30.0	31.3	19.1	19.6	20.1	20.7	22.0
	8H	29.4	29.9	30.5	31.0	32.3	19.2	19.7	20.2	20.7	22.1
	12H	30.5	31.0	31.6	32.0	33.4	19.2	19.7	20.3	20.7	22.1
8H	4H	26.7	27.2	27.7	28.2	29.6	19.8	20.3	20.8	21.4	22.7
	6H	28.8	29.2	29.8	30.2	31.6	20.5	20.9	21.5	21.9	23.3
	8H	29.9	30.3	30.9	31.3	32.7	20.7	21.1	21.7	22.1	23.5
	12H	31.2	31.5	32.2	32.6	34.0	20.8	21.1	21.8	22.2	23.6
12H	4H	26.7	27.1	27.7	28.2	29.5	20.2	20.6	21.2	21.7	23.0
	6H	28.8	29.1	29.8	30.2	31.6	21.0	21.4	22.0	22.4	23.8
	8H	30.0	30.3	31.0	31.3	32.7	21.3	21.6	22.3	22.7	24.1

Maximum UGR = 34.0

POLAR GRAPH



Maximum Candela = 1093.176 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.)