

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-927U-L38-927D-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
[MANUFACT] H E Williams Inc
[LUMCAT] CMH-3-00-L38-927U-L38-927D-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	6108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	16815	15838	15099
55	16716	15135	13789
65	16744	14586	12232
75	17035	14226	9948
85	17907	14504	6591

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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	914.043	914.043	914.043	914.043	914.043	914.043	914.043	914.043	914.043
0.5	915.328	916.854	915.155	918.636	912.405	917.146	910.989	910.941	911.028
1.0	917.820	919.028	918.514	919.381	911.843	915.778	908.375	908.327	908.474
1.5	921.119	921.947	919.503	921.372	911.843	913.224	907.007	905.150	904.113
2.0	923.916	925.551	921.738	921.555	911.159	911.294	904.514	902.597	901.560
2.5	927.959	928.030	924.719	922.362	910.536	910.048	902.022	900.728	899.128
3.0	930.635	931.756	927.076	922.545	909.913	908.802	900.153	896.990	895.952
3.5	934.177	935.041	928.811	924.658	909.913	906.249	897.038	894.436	894.083
4.0	938.844	938.327	931.791	924.841	908.606	903.757	895.792	891.321	889.722
4.5	940.957	941.050	934.148	924.462	907.983	903.133	892.676	888.206	885.922
5.0	942.129	944.458	936.188	926.514	906.737	900.018	888.938	885.029	882.245
5.5	946.478	947.242	936.859	926.758	904.868	896.903	887.069	881.914	880.376
6.0	949.397	949.465	938.654	926.379	903.561	896.219	884.577	879.361	876.576
6.5	951.754	953.678	940.511	926.061	902.376	893.788	881.339	874.938	872.899
7.0	954.112	956.341	941.744	926.183	901.691	891.796	878.224	871.139	868.477
7.5	956.517	958.563	943.038	925.927	898.515	888.681	874.486	868.024	864.115
8.0	961.145	960.163	944.638	924.301	896.646	885.566	871.370	864.224	859.754
8.5	965.247	962.507	946.237	925.230	896.023	883.697	868.194	860.486	855.453
9.0	970.851	964.974	947.653	924.228	892.908	880.520	864.395	855.441	851.092
9.5	973.623	967.123	948.508	924.533	890.977	876.782	860.656	851.641	849.846
10.0	976.712	970.456	949.301	923.653	889.108	874.229	857.541	847.903	842.992
10.5	979.741	972.422	950.717	922.712	885.993	871.175	853.742	843.481	839.938
11.0	981.585	973.825	951.572	921.209	884.686	867.998	849.319	840.365	835.577
11.5	983.245	976.035	951.803	919.706	880.948	864.260	845.642	835.320	829.969
12.0	984.282	977.622	952.657	919.449	878.455	862.330	841.843	830.958	825.046
12.5	987.873	980.454	952.950	917.946	876.525	857.284	837.481	826.597	820.684
13.0	989.900	981.980	953.364	916.443	874.033	854.169	833.059	821.552	814.576
13.5	991.486	984.007	953.778	915.563	869.671	850.431	829.259	816.506	810.960
14.0	994.502	985.288	954.254	914.121	867.741	845.385	823.652	811.522	805.535
14.5	996.590	986.631	953.361	911.934	864.626	842.270	819.230	806.537	799.989
15.0	996.625	987.289	953.653	910.492	860.204	838.470	814.868	801.553	794.442
15.5	997.919	988.008	953.567	907.681	856.465	834.671	809.823	795.945	791.327
16.0	998.469	989.351	952.857	905.372	853.289	830.310	806.023	790.961	783.789
16.5	1001.154	990.693	954.016	904.553	850.174	825.948	801.039	786.599	780.051
17.0	1004.096	990.167	953.930	901.743	847.058	820.903	796.616	780.931	776.374
17.5	1004.558	992.193	953.159	898.249	842.636	817.727	790.948	777.131	770.082
18.0	1006.328	991.667	952.388	896.807	838.275	811.435	785.340	771.524	765.721
18.5	1008.720	992.447	951.434	894.119	833.852	807.697	782.787	768.409	760.052
19.0	1008.120	993.228	951.226	892.176	830.114	802.651	777.803	762.801	754.444
19.5	1010.940	993.324	949.649	889.671	825.691	798.852	772.134	757.194	748.153
20.0	1012.331	992.919	949.440	886.360	821.953	793.867	769.642	751.586	742.545
20.5	1012.732	993.700	947.301	883.671	818.154	788.822	763.973	745.918	736.254
21.0	1013.073	993.234	946.469	879.981	812.546	783.837	758.366	740.310	730.646
21.5	1014.097	993.514	944.953	878.099	808.747	781.284	753.381	734.080	724.416
22.0	1015.427	993.292	943.499	875.655	803.762	775.054	747.713	728.472	718.124
22.5	1016.194	993.071	941.983	872.466	798.717	770.570	742.044	722.865	712.517
23.0	1015.655	993.411	940.528	869.216	794.294	764.340	736.437	716.634	706.225
23.5	1015.800	992.750	939.635	864.720	788.687	761.847	730.768	710.403	699.994
24.0	1016.506	992.650	937.557	862.337	784.949	756.802	725.100	704.735	693.141
24.5	1016.908	992.429	936.102	858.708	779.280	751.194	719.492	698.565	687.533
25.0	1016.063	992.268	933.401	856.081	777.411	745.465	713.824	692.274	681.242
25.5	1014.595	990.861	931.947	852.891	772.989	739.857	708.216	686.043	674.388
26.0	1014.997	990.518	929.869	847.833	768.627	734.189	701.925	680.436	668.720
26.5	1014.213	988.928	927.852	843.960	762.959	728.581	696.256	674.205	661.805

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CANDELA TABULATION - (Cont.)

27.0	1012.807	987.961	926.519	840.771	757.290	722.852	690.026	667.975	655.574
27.5	1012.768	987.618	922.755	837.582	752.245	717.244	684.357	661.683	649.283
28.0	1013.170	986.028	920.298	831.839	746.637	710.953	678.689	655.452	642.429
28.5	1011.519	984.438	918.403	829.212	741.653	705.345	672.458	649.222	636.138
29.0	1010.173	984.095	916.509	824.154	735.422	699.677	666.227	642.368	629.907
29.5	1009.891	981.259	914.113	818.973	729.754	693.446	659.936	636.138	623.365
30.0	1009.412	979.547	911.595	815.723	724.085	687.093	654.328	629.846	616.888
30.5	1007.823	978.141	909.077	811.288	718.477	681.486	648.037	623.553	610.656
31.0	1007.601	977.174	906.620	806.731	712.870	675.194	641.806	617.260	604.177
31.5	1006.256	976.085	902.856	804.727	707.201	668.964	635.576	611.092	597.761
32.0	1004.165	974.496	901.022	799.546	700.971	663.295	629.284	604.673	591.592
32.5	1004.566	972.283	897.820	796.919	695.302	657.004	622.991	598.443	585.052
33.0	1001.169	971.377	895.180	792.484	689.695	650.773	616.698	591.902	578.510
33.5	1001.753	968.480	891.917	787.365	683.403	644.481	610.468	585.609	572.217
34.0	1000.909	966.329	888.031	782.868	677.173	638.251	604.176	579.441	565.676
34.5	998.940	964.116	884.145	777.688	670.881	632.582	597.883	573.023	559.321
35.0	996.605	961.903	881.566	772.569	664.651	626.165	591.715	566.730	553.153
35.5	995.137	960.374	878.866	768.073	659.043	619.873	585.547	560.375	546.673
36.0	992.790	956.916	875.102	762.953	652.812	613.580	579.254	554.145	540.195
36.5	991.444	954.703	872.462	757.834	645.959	607.289	572.713	548.039	533.777
37.0	989.292	953.174	867.892	752.654	639.667	601.183	566.607	541.622	527.297
37.5	987.385	949.776	863.944	747.534	633.437	594.704	560.376	535.143	521.193
38.0	986.601	946.941	861.427	742.415	627.206	588.411	554.021	529.037	514.590
38.5	982.702	944.789	856.294	737.296	620.852	581.994	547.791	522.683	508.047
39.0	980.795	943.260	852.970	731.553	614.372	575.827	541.436	516.452	501.692
39.5	978.081	939.801	853.446	726.373	608.080	569.534	535.330	510.097	495.399
40.0	977.358	937.649	849.621	721.254	601.600	563.054	529.163	503.868	489.293
40.5	973.582	935.376	845.796	715.511	595.121	556.763	522.745	497.636	483.001
41.0	970.746	932.100	841.849	710.331	588.828	550.470	516.515	491.344	476.586
41.5	967.592	929.264	838.024	704.710	582.224	543.929	510.159	485.238	470.416
42.0	966.808	926.990	833.454	699.652	575.807	537.946	503.930	478.885	464.249
42.5	964.217	924.215	829.568	694.594	569.327	531.593	497.637	472.529	458.142
43.0	961.002	919.511	825.559	689.658	562.848	525.175	491.407	466.548	451.665
43.5	959.473	917.298	821.734	684.037	556.057	518.758	484.989	460.132	445.620
44.0	956.197	914.462	817.286	678.417	549.702	512.466	478.572	453.839	439.701
44.5	953.606	911.687	812.655	672.736	543.097	506.235	472.280	447.672	433.534
45.0	951.698	909.474	808.830	667.616	536.618	499.632	466.050	441.317	427.490
45.5	947.616	905.453	804.321	661.999	530.139	493.276	459.570	435.211	421.136
46.0	947.334	902.679	799.812	656.443	523.535	486.858	453.339	429.043	415.030
46.5	943.557	901.089	795.926	650.824	516.991	480.505	446.922	422.751	409.174
47.0	942.150	900.122	791.417	645.082	510.201	474.149	440.629	416.706	403.256
47.5	940.059	897.531	786.847	639.648	503.472	467.670	434.337	410.477	396.963
48.0	937.529	893.889	782.521	634.215	496.805	461.004	428.168	404.558	390.857
48.5	933.447	890.613	777.829	628.719	490.263	454.524	421.752	398.391	384.813
49.0	930.916	887.154	773.381	623.036	483.723	448.107	415.459	392.409	378.645
49.5	928.446	883.695	768.810	617.355	477.118	441.814	409.290	386.367	372.788
50.0	928.787	880.981	764.240	611.798	470.451	435.398	403.123	380.323	366.620
50.5	924.326	877.522	759.792	606.057	463.847	428.793	396.768	374.590	360.640
51.0	923.481	874.186	755.344	600.502	457.305	422.438	390.600	368.485	354.598
51.5	920.389	870.788	750.151	594.758	450.763	415.896	384.307	362.442	348.741
52.0	917.296	866.706	745.520	588.768	444.096	409.603	378.263	356.524	343.009
52.5	914.643	863.308	741.072	583.150	437.554	403.249	372.097	350.605	337.027
53.0	911.367	859.788	735.940	577.283	430.950	396.770	365.866	344.686	330.984
53.5	908.092	856.451	731.307	571.480	424.532	390.227	359.635	338.829	324.941
54.0	905.060	852.931	726.488	565.550	417.867	383.935	353.467	332.785	319.582
54.5	901.784	849.094	721.480	559.559	411.449	377.704	347.362	326.992	313.665

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CANDELA TABULATION - (Cont.)

55.0	898.630	845.574	716.723	553.755	404.907	371.226	341.194	321.011	307.683
55.5	895.416	841.492	712.026	547.701	398.427	364.685	335.090	315.092	301.951
56.0	892.262	838.094	707.144	541.836	391.823	358.391	329.045	309.422	295.908
56.5	889.230	834.012	702.075	535.719	385.280	351.974	322.753	303.316	290.363
57.0	886.015	830.675	697.070	529.666	378.677	345.680	316.895	297.710	284.879
57.5	882.177	826.654	692.246	523.613	372.195	339.141	310.915	291.666	278.836
58.0	878.780	822.511	687.302	517.372	365.468	332.784	304.747	285.997	273.042
58.5	875.748	818.490	682.236	511.319	358.863	326.491	298.828	280.202	267.185
59.0	872.533	814.592	676.981	505.079	352.134	320.137	292.909	274.345	261.640
59.5	868.756	810.388	672.096	498.839	345.343	313.720	287.052	268.676	255.970
60.0	864.674	806.306	666.841	492.786	338.676	307.241	281.195	262.943	250.238
60.5	860.959	802.285	661.960	486.734	332.072	300.886	275.215	257.274	244.506
61.0	857.744	798.200	656.891	480.805	325.530	294.469	269.234	251.541	238.836
61.5	853.845	794.118	651.823	474.690	318.863	288.238	263.252	245.809	233.104
62.0	849.323	789.787	646.505	468.449	312.320	281.822	257.520	240.079	227.621
62.5	845.485	785.516	641.496	462.334	305.591	275.529	251.539	234.284	221.827
63.0	841.647	781.431	636.492	456.219	299.111	269.049	245.559	228.614	216.282
63.5	837.809	776.913	631.424	450.103	292.507	262.632	239.701	223.006	210.549
64.0	834.033	772.520	626.106	443.988	285.902	256.526	233.782	217.211	205.192
64.5	829.572	768.189	621.101	437.873	279.361	250.171	227.738	211.541	200.020
65.0	825.299	763.857	615.598	431.509	272.757	243.940	221.695	205.934	194.225
65.5	820.967	759.277	610.528	425.207	266.090	237.585	215.900	200.264	188.743
66.0	816.755	754.571	605.397	419.093	259.609	231.231	209.856	194.719	183.384
66.5	812.790	750.054	599.957	412.916	253.131	224.876	204.063	188.987	178.026
67.0	808.329	745.535	594.887	406.739	246.650	218.645	198.392	183.504	172.855
67.5	803.994	741.015	589.445	400.375	240.169	212.539	192.598	177.959	167.434
68.0	799.720	736.313	584.130	394.074	233.378	206.496	186.742	172.476	161.889
68.5	795.197	731.607	578.875	387.834	226.836	200.141	180.886	166.993	156.406
69.0	791.237	726.965	573.371	381.721	220.419	194.097	175.091	161.510	151.359
69.5	786.776	722.447	568.240	375.668	214.001	187.866	169.607	156.152	146.125
70.0	782.563	717.740	562.738	369.616	207.522	181.823	163.938	150.793	140.891
70.5	778.226	712.974	557.420	363.501	201.105	175.656	158.331	145.310	135.471
71.0	774.014	708.267	552.041	357.203	194.624	169.674	152.723	140.139	130.238
71.5	769.737	703.561	546.416	351.151	188.518	163.693	147.242	134.968	125.066
72.0	765.096	698.548	541.160	345.286	182.162	157.712	141.758	129.796	120.330
72.5	760.695	693.965	535.781	339.297	175.372	151.793	136.337	124.812	115.034
73.0	756.114	689.137	530.527	333.493	169.265	145.998	131.041	119.578	110.049
73.5	751.652	684.184	525.213	327.503	162.973	140.391	125.683	114.469	104.940
74.0	747.252	679.417	519.711	321.515	156.804	134.721	120.387	109.608	100.082
74.5	742.485	674.405	514.393	315.590	150.822	129.113	115.215	104.686	95.533
75.0	737.962	669.638	508.833	309.847	144.779	123.506	110.106	99.827	90.611
75.5	733.317	664.685	503.519	303.861	138.858	118.023	104.996	94.843	85.937
76.0	728.610	659.919	498.451	297.998	132.939	112.665	99.826	90.170	81.389
76.5	723.898	654.905	493.014	292.441	127.020	107.369	94.717	85.310	76.904
77.0	719.129	650.203	487.700	286.517	121.287	102.073	89.980	80.762	72.728
77.5	714.359	645.253	482.388	281.024	115.430	96.839	85.059	76.151	68.367
78.0	709.715	640.488	477.259	275.410	109.947	91.605	80.262	71.727	64.130
78.5	704.696	635.540	472.192	270.103	104.402	86.496	75.527	67.365	59.893
79.0	699.991	630.466	467.004	264.491	99.042	81.574	70.854	63.003	55.594
79.5	695.221	625.703	461.938	259.062	93.622	76.714	66.304	58.642	51.669
80.0	690.332	620.877	456.814	253.699	88.262	71.978	61.881	54.530	47.681
80.5	685.440	615.993	451.687	248.643	83.091	67.243	57.519	50.418	43.818
81.0	680.859	611.292	446.933	243.589	78.105	62.632	53.282	46.430	39.831
81.5	676.152	606.218	441.996	238.536	73.245	58.207	49.107	42.505	35.968
82.0	671.385	601.518	437.243	233.483	68.448	53.846	44.933	38.642	32.355
82.5	667.111	597.255	432.554	228.615	63.650	49.671	41.069	35.089	28.926

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CANDELA TABULATION - (Cont.)

83.0	662.471	592.678	427.741	224.058	59.040	45.434	37.206	31.475	25.376
83.5	658.079	588.039	423.053	219.563	54.616	41.321	33.530	27.924	21.949
84.0	653.809	583.651	418.614	215.072	50.317	37.396	29.916	24.497	18.583
84.5	649.414	579.139	414.114	210.579	46.080	33.595	26.240	21.070	15.469
85.0	645.268	574.565	409.676	206.336	41.968	29.919	22.751	17.893	12.664
85.5	641.184	570.363	405.050	202.093	37.918	26.243	19.386	14.840	10.172
86.0	637.103	566.343	400.612	198.037	33.993	22.692	16.146	12.098	8.365
86.5	633.325	562.689	396.608	193.980	30.192	19.263	13.030	9.979	7.118
87.0	629.852	560.138	392.660	190.234	26.578	15.899	10.289	8.296	6.308
87.5	627.356	558.198	389.694	186.365	22.965	12.658	8.356	7.236	5.808
88.0	626.147	557.299	387.580	182.556	19.289	9.480	6.985	6.488	5.556
88.5	625.237	556.641	386.259	179.235	15.613	6.863	6.236	5.927	5.246
89.0	624.697	556.476	385.921	176.954	11.873	5.617	5.800	5.739	5.182
89.5	624.588	556.372	385.643	176.198	8.693	5.180	5.613	5.552	5.120
90.0	624.659	556.329	385.675	176.242	7.435	5.055	5.550	5.551	5.181
90.5	624.179	556.474	385.711	176.596	8.832	5.054	5.549	5.550	5.118
91.0	624.440	556.930	386.177	178.254	11.882	5.114	5.486	5.611	5.118
91.5	624.578	557.758	387.204	181.160	15.543	6.090	5.547	5.549	5.055
92.0	625.337	559.083	389.536	184.628	19.083	7.858	5.730	5.486	5.177
92.5	626.157	561.338	392.738	188.096	22.499	10.727	6.217	5.669	5.299
93.0	627.849	564.157	396.561	192.119	25.915	14.083	7.438	5.913	5.726
93.5	630.039	567.719	400.633	195.709	29.454	17.439	9.512	6.583	6.703
94.0	633.285	571.778	404.824	199.790	33.177	20.856	12.320	7.926	8.595
94.5	637.216	575.901	408.768	203.810	36.960	24.150	15.554	10.063	11.219
95.0	641.332	580.329	413.391	207.827	40.866	27.751	18.848	12.625	14.146
95.5	645.448	584.819	417.828	212.030	44.893	31.413	22.265	15.737	17.504
96.0	649.750	588.999	422.201	216.353	49.043	35.073	25.928	19.094	20.799
96.5	653.928	593.302	426.699	220.863	53.313	38.918	29.528	22.449	24.339
97.0	658.166	597.668	431.197	225.432	57.707	42.762	33.250	25.989	27.939
97.5	662.527	602.153	435.755	230.000	62.285	46.851	37.034	29.712	31.478
98.0	666.762	606.640	440.317	234.872	66.799	51.001	40.817	33.313	35.077
98.5	671.244	611.248	445.121	239.808	71.621	55.272	44.783	37.095	38.984
99.0	675.664	615.918	449.925	244.679	76.625	59.849	48.872	40.939	42.890
99.5	680.086	620.464	454.789	249.797	81.628	64.365	53.082	44.968	46.979
100.0	684.504	625.134	459.776	254.974	86.754	69.124	57.292	48.996	50.884
100.5	688.924	629.863	464.700	260.152	92.002	73.884	61.686	53.023	55.033
101.0	693.590	634.470	469.748	265.513	97.373	78.644	66.264	57.173	59.122
101.5	697.887	639.073	474.732	270.813	102.803	83.771	70.780	61.383	63.454
102.0	702.549	643.867	479.960	276.235	108.356	88.528	75.479	65.716	67.910
102.5	707.029	648.472	485.005	281.595	113.909	93.900	80.177	70.171	72.304
103.0	711.635	653.200	490.110	287.017	119.707	100.246	84.998	74.625	76.820
103.5	716.236	657.868	495.277	292.560	125.566	105.494	89.880	79.202	81.274
104.0	720.843	662.534	500.505	298.226	131.302	109.948	94.762	83.841	86.034
104.5	725.319	667.447	505.669	303.769	137.160	115.563	99.888	88.600	90.794
105.0	730.045	672.053	510.775	309.312	143.262	120.933	104.954	93.422	95.615
105.5	734.095	676.780	516.062	314.978	149.305	126.608	110.079	98.243	100.436
106.0	738.757	681.508	521.166	320.704	155.406	132.955	115.328	103.125	105.380
106.5	743.114	686.052	526.270	326.492	161.693	139.545	120.637	108.069	110.260
107.0	747.655	690.718	531.435	332.096	167.856	144.366	125.885	113.132	115.571
107.5	752.196	695.445	536.539	337.884	174.141	149.553	131.377	118.136	120.514
108.0	756.553	700.049	541.829	343.793	180.428	155.411	136.747	123.508	125.701
108.5	760.847	704.654	547.055	349.704	186.836	161.393	142.178	128.632	130.828
109.0	765.449	709.075	552.222	355.552	193.182	167.311	147.792	134.004	136.076
109.5	769.682	713.990	557.386	361.338	199.528	173.292	153.347	139.191	141.263
110.0	774.099	718.286	562.430	367.371	205.997	179.334	158.839	144.561	146.695
110.5	778.395	722.893	567.289	373.280	212.465	185.375	164.514	149.931	152.004

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CANDELA TABULATION - (Cont.)

111.0	782.751	727.193	572.392	379.190	218.995	191.478	170.189	155.363	157.435
111.5	786.988	731.675	577.560	385.222	225.524	197.581	175.803	160.855	162.622
112.0	791.038	736.160	582.600	391.192	232.054	203.744	181.600	166.347	167.869
112.5	795.395	740.583	587.767	397.284	238.768	210.030	187.459	171.778	173.240
113.0	799.320	745.005	592.872	403.254	245.236	216.315	193.195	177.209	178.732
113.5	803.617	749.367	597.913	409.470	251.766	222.663	199.114	182.823	184.346
114.0	807.727	753.542	602.954	415.440	258.478	228.887	205.157	188.377	189.839
114.5	811.777	757.841	607.998	421.471	264.947	235.294	212.356	194.114	195.331
115.0	815.583	762.204	613.041	427.564	271.538	241.642	220.045	199.789	200.946
115.5	819.452	766.503	618.021	433.595	278.190	248.111	225.537	205.342	206.377
116.0	823.623	770.496	623.127	439.626	284.841	254.457	229.322	211.017	212.296
116.5	827.371	774.798	627.922	445.659	291.371	260.803	234.570	216.693	217.849
117.0	831.542	779.098	633.089	451.751	298.024	267.394	241.528	222.490	223.648
117.5	835.227	783.029	637.946	457.721	304.797	273.681	249.339	228.043	229.139
118.0	838.912	787.266	642.866	463.814	311.266	280.271	255.562	233.902	234.876
118.5	842.410	791.200	648.031	469.783	317.978	286.741	259.836	239.454	240.551
119.0	846.158	795.010	652.830	475.876	324.631	293.087	264.596	245.436	246.411
119.5	849.905	799.430	657.749	481.846	331.283	299.373	270.454	251.172	251.902
120.0	853.466	803.427	662.607	487.755	338.057	305.780	276.434	257.030	258.005
120.5	857.089	807.299	667.466	493.542	344.648	312.311	282.476	262.829	263.619
121.0	860.712	811.109	672.387	499.573	351.055	318.657	288.456	268.748	269.357
121.5	864.397	815.106	677.124	505.420	357.768	324.943	294.436	275.766	275.093
122.0	867.410	818.978	681.984	511.452	364.419	331.290	300.662	283.761	280.951
122.5	871.157	822.115	686.658	517.300	370.949	337.576	306.642	290.594	286.871
123.0	874.842	826.112	691.456	523.147	377.541	344.045	312.746	295.111	292.729
123.5	878.528	829.860	696.317	528.934	384.192	350.331	318.848	300.542	298.770
124.0	881.603	833.184	701.175	534.721	390.661	356.738	325.013	307.622	306.887
124.5	885.288	836.994	705.848	540.630	397.313	363.208	331.115	313.603	317.446
125.0	888.488	840.928	710.709	546.476	403.782	369.371	337.339	317.630	324.218
125.5	891.500	844.190	715.506	552.326	410.433	375.779	343.443	321.903	327.392
126.0	895.123	848.062	720.000	557.928	416.902	382.125	349.606	327.577	328.491
126.5	898.136	851.449	724.794	563.654	423.370	388.351	355.647	333.436	333.617
127.0	901.335	855.321	729.899	569.380	429.962	394.819	361.750	339.357	339.475
127.5	904.473	858.583	734.270	574.923	436.492	401.105	367.914	345.215	345.396
128.0	907.485	861.907	738.516	580.708	442.899	407.573	374.140	351.134	351.437
128.5	910.623	865.779	743.559	586.434	449.552	414.043	380.058	357.116	357.356
129.0	913.760	869.103	747.929	592.038	456.142	420.328	386.467	363.217	363.397
129.5	913.722	872.365	752.300	597.703	462.672	426.675	392.752	369.137	369.439
130.0	916.921	875.627	757.343	603.368	469.140	433.021	398.977	375.057	375.481
130.5	918.838	878.889	761.651	609.094	475.610	439.491	405.202	380.976	381.584
131.0	921.851	881.478	766.022	614.636	482.201	445.837	411.242	386.958	387.564
131.5	922.609	884.317	770.392	620.239	488.852	452.123	417.407	393.060	393.606
132.0	927.390	886.969	774.763	625.782	495.382	458.408	423.753	399.101	399.831
132.5	930.590	889.558	779.134	631.325	502.034	464.817	429.917	405.142	405.870
133.0	931.959	891.786	783.504	636.746	508.625	471.102	436.324	411.063	411.915
133.5	934.972	893.828	787.875	642.349	515.034	477.511	442.487	417.898	417.956
134.0	939.329	897.762	792.183	648.015	521.502	483.918	448.835	423.878	424.182
134.5	940.636	900.414	795.943	653.556	528.032	490.143	455.120	429.981	430.161
135.0	943.711	904.348	800.314	659.222	534.561	496.672	461.282	436.145	436.571
135.5	947.521	906.327	804.685	664.154	541.092	503.079	467.631	442.370	442.489
136.0	948.765	909.041	808.868	669.820	547.560	509.488	473.795	448.288	448.714
136.5	953.061	911.755	812.753	675.299	553.968	515.650	480.019	454.453	454.631
137.0	953.147	914.955	816.451	680.903	560.498	522.119	486.305	460.496	461.103
137.5	956.707	918.279	820.884	685.959	566.846	528.591	492.346	466.534	467.206
138.0	958.014	920.321	823.237	691.376	573.250	534.812	498.505	472.574	472.931
138.5	961.761	924.255	826.450	696.370	579.414	541.097	504.793	478.984	479.466

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CANDELA TABULATION - (Cont.)

139.0	963.865	925.749	830.820	701.911	585.761	547.199	510.957	485.026	485.692
139.5	965.595	928.338	833.908	706.780	592.171	553.608	517.121	491.190	491.856
140.0	967.512	931.114	837.731	711.712	598.456	559.710	523.102	497.232	497.960
140.5	970.712	933.891	839.660	717.191	604.804	566.058	529.449	503.579	504.552
141.0	972.566	936.542	842.810	722.060	611.274	572.223	535.735	510.048	511.020
141.5	975.093	937.488	847.181	727.539	617.681	578.447	541.898	516.394	517.306
142.0	976.524	940.874	850.269	732.470	623.783	584.671	548.060	522.740	523.652
142.5	978.441	943.526	854.091	737.339	629.886	590.774	554.162	528.782	529.998
143.0	981.454	945.505	857.179	742.333	635.988	596.998	560.265	534.884	536.284
143.5	984.043	946.999	860.329	747.327	642.701	603.344	566.611	541.353	542.631
144.0	982.909	949.165	864.090	752.320	648.865	609.569	572.712	547.698	548.977
144.5	986.233	951.941	867.240	757.252	655.030	615.427	578.938	553.983	555.323
145.0	989.308	954.045	869.780	761.697	661.132	621.529	585.040	560.085	561.915
145.5	989.457	956.149	874.150	766.691	667.234	627.694	591.141	566.371	568.017
146.0	991.311	957.517	876.628	771.137	672.789	633.796	597.121	572.473	574.303
146.5	994.698	960.294	879.840	774.300	678.891	639.899	603.163	578.696	580.588
147.0	996.066	961.663	882.928	778.683	684.993	646.001	609.448	584.858	586.933
147.5	998.656	964.501	885.530	781.908	690.548	652.228	615.489	591.083	593.035
148.0	998.680	964.774	888.681	785.682	696.650	658.268	621.592	597.307	599.443
148.5	998.890	966.268	890.610	790.675	702.205	663.760	627.756	603.531	605.668
149.0	1000.745	969.044	893.760	795.059	708.369	669.314	633.796	609.632	612.014
149.5	1001.691	968.097	895.690	798.284	713.861	675.479	639.899	615.552	618.117
150.0	1002.262	970.748	898.840	803.340	719.353	681.581	646.001	621.654	624.830
150.5	1004.241	972.242	902.663	807.175	724.845	687.136	652.103	628.366	630.932
151.0	1004.328	973.735	903.434	811.621	730.400	692.628	657.658	634.407	637.582
151.5	1006.369	974.071	907.195	815.394	735.954	698.730	663.760	640.571	643.747
152.0	1006.517	975.016	908.576	819.840	741.509	704.284	669.862	646.611	650.397
152.5	1005.993	976.510	911.178	823.065	747.001	709.777	676.027	652.713	656.562
153.0	1006.142	976.783	913.781	827.511	751.945	715.331	681.457	658.206	662.664
153.5	1008.121	978.339	915.710	831.346	755.058	720.823	687.621	664.918	668.766
154.0	1007.049	979.284	917.092	835.792	761.161	726.988	693.113	670.958	675.541
154.5	1008.418	979.620	918.349	839.017	765.432	731.870	699.216	677.060	681.706
155.0	1009.724	980.503	920.827	842.243	769.156	737.486	704.770	682.553	687.746
155.5	1009.325	980.290	922.570	846.140	773.490	742.916	710.872	688.655	693.911
156.0	1007.580	981.236	923.702	849.303	778.982	748.533	716.427	694.757	699.951
156.5	1008.949	982.244	924.959	853.201	783.316	751.584	721.919	700.797	705.443
157.0	1009.583	981.907	926.827	856.489	788.260	757.138	727.411	706.289	711.607
157.5	1006.780	982.304	928.084	859.041	792.532	762.020	733.576	712.392	717.710
158.0	1006.965	980.871	929.528	862.267	796.866	766.902	739.068	718.494	723.812
158.5	1005.332	981.269	930.361	864.944	801.747	770.626	743.950	723.986	729.304
159.0	1003.650	981.667	931.806	868.169	806.081	775.507	747.611	729.478	735.406
159.5	1005.268	982.002	932.639	871.457	809.743	781.000	754.996	735.580	740.898
160.0	1003.274	981.665	933.535	874.072	814.687	785.334	758.047	741.072	747.001
160.5	1001.841	981.265	935.042	876.139	818.411	790.278	763.602	746.565	752.555
161.0	1002.350	981.352	935.938	878.816	821.462	794.549	767.873	750.836	758.595
161.5	1001.167	979.121	937.382	881.431	826.344	799.431	771.597	756.328	763.477
162.0	1000.357	978.174	935.899	884.109	829.395	803.765	777.089	761.820	765.793
162.5	998.064	976.679	938.016	884.955	834.339	808.709	781.361	766.092	771.161
163.0	997.415	977.686	937.754	888.243	837.452	813.591	787.525	770.364	775.856
163.5	996.281	975.706	938.102	889.637	841.724	817.315	791.797	775.856	781.285
164.0	996.616	975.680	938.998	891.704	844.775	820.976	796.068	780.738	786.105
164.5	994.636	973.761	938.736	893.099	848.499	825.248	801.623	786.292	792.693
165.0	992.717	973.673	939.084	895.166	852.160	830.130	806.505	790.564	797.575
165.5	989.578	970.534	938.885	897.171	855.884	833.243	810.166	794.835	801.846
166.0	989.552	969.350	938.560	899.238	858.935	836.905	814.500	800.327	807.824
166.5	988.181	968.104	938.971	901.305	861.376	841.238	819.320	805.209	813.316

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167.0	986.686	966.858	938.161	900.993	864.490	844.290	824.264	809.543	818.198
167.5	984.033	964.516	937.961	902.513	866.993	847.951	827.315	815.097	822.470
168.0	979.798	962.722	937.761	904.032	870.044	851.675	832.259	819.979	827.414
168.5	979.162	961.289	937.562	905.613	873.095	855.336	837.203	824.923	832.233
169.0	975.475	959.184	936.141	904.692	876.209	858.997	840.192	828.585	836.443
169.5	973.618	956.904	935.942	906.759	877.977	861.438	845.074	834.077	840.042
170.0	971.762	954.562	935.132	907.120	879.808	865.162	848.798	837.738	844.924
170.5	969.968	953.503	933.163	908.091	881.701	868.213	851.911	842.072	849.258
171.0	966.219	951.285	933.636	908.514	882.921	871.264	855.025	846.344	852.981
171.5	963.266	949.068	930.996	908.938	886.035	873.157	858.748	850.740	857.863
172.0	961.659	946.303	930.920	909.909	888.538	876.209	862.410	853.181	861.400
172.5	958.769	943.600	928.952	909.722	890.306	879.260	866.071	858.063	866.219
173.0	954.721	941.382	927.109	909.597	891.589	882.311	869.732	861.724	868.598
173.5	952.566	938.617	926.548	910.693	892.747	883.531	872.784	864.775	872.932
174.0	950.287	936.462	924.094	910.568	893.357	886.583	875.225	868.499	877.141
174.5	946.724	932.539	922.375	910.444	895.250	889.634	878.213	872.161	878.972
175.0	943.162	929.836	920.657	909.161	897.081	891.464	880.654	875.149	882.571
175.5	939.662	927.257	919.000	910.382	898.239	892.623	883.768	878.263	885.012
176.0	938.727	924.741	917.406	910.319	899.522	895.126	886.757	881.376	889.956
176.5	933.645	921.129	915.874	909.771	900.070	896.346	890.480	884.490	891.849
177.0	931.005	918.862	913.246	909.771	900.195	898.177	891.091	887.479	894.900
177.5	927.081	915.437	912.511	908.551	901.353	898.787	894.142	889.920	896.669
178.0	923.407	913.358	911.228	908.551	901.963	900.618	895.910	893.643	901.613
178.5	919.497	909.572	909.397	907.941	901.963	902.449	897.741	896.022	904.602
179.0	916.869	908.289	906.957	907.941	902.573	903.059	900.854	898.463	905.822
179.5	914.365	905.910	905.736	906.720	902.573	904.279	902.075	900.356	910.766
180.0	904.877	904.877	904.877	904.877	904.877	904.877	904.877	904.877	904.877

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L38-927U-L38-927D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	335.96	N.A.	5.50
0-30	713.66	N.A.	11.70
0-40	1170.66	N.A.	19.20
0-60	2120.33	N.A.	34.70
0-80	2839.75	N.A.	46.50
0-90	3065.74	N.A.	50.20
10-90	2978.95	N.A.	48.80
20-40	834.70	N.A.	13.70
20-50	1319.27	N.A.	21.60
40-70	1354.02	N.A.	22.20
60-80	719.42	N.A.	11.80
70-80	315.08	N.A.	5.20
80-90	225.99	N.A.	3.70
90-110	539.03	N.A.	8.80
90-120	940.53	N.A.	15.40
90-130	1402.35	N.A.	23.00
90-150	2336.09	N.A.	38.20
90-180	3041.82	N.A.	49.80
110-180	2502.79	N.A.	41.00
0-180	6107.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.79
10-20	249.17
20-30	377.70
30-40	457.00
40-50	484.57
50-60	465.11
60-70	404.34
70-80	315.08
80-90	225.99
90-100	225.66
100-110	313.37
110-120	401.50
120-130	461.82
130-140	480.86
140-150	452.88
150-160	373.67
160-170	246.24
170-180	85.81

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-927U-L38-927D-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-L38-927U-L38-927D-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	21.0	21.9	22.0	22.9	24.2	15.1	16.0	16.0	17.0	18.2
	3H	24.1	24.9	25.1	25.9	27.2	16.4	17.3	17.4	18.2	19.5
	4H	25.7	26.5	26.7	27.5	28.7	16.9	17.6	17.8	18.6	19.9
	6H	27.4	28.1	28.3	29.1	30.4	17.1	17.8	18.1	18.8	20.1
	8H	28.2	28.9	29.2	30.0	31.3	17.2	17.8	18.1	18.9	20.2
	12H	29.2	29.9	30.2	30.9	32.2	17.2	17.8	18.2	18.8	20.2

UGR Viewed Endwise

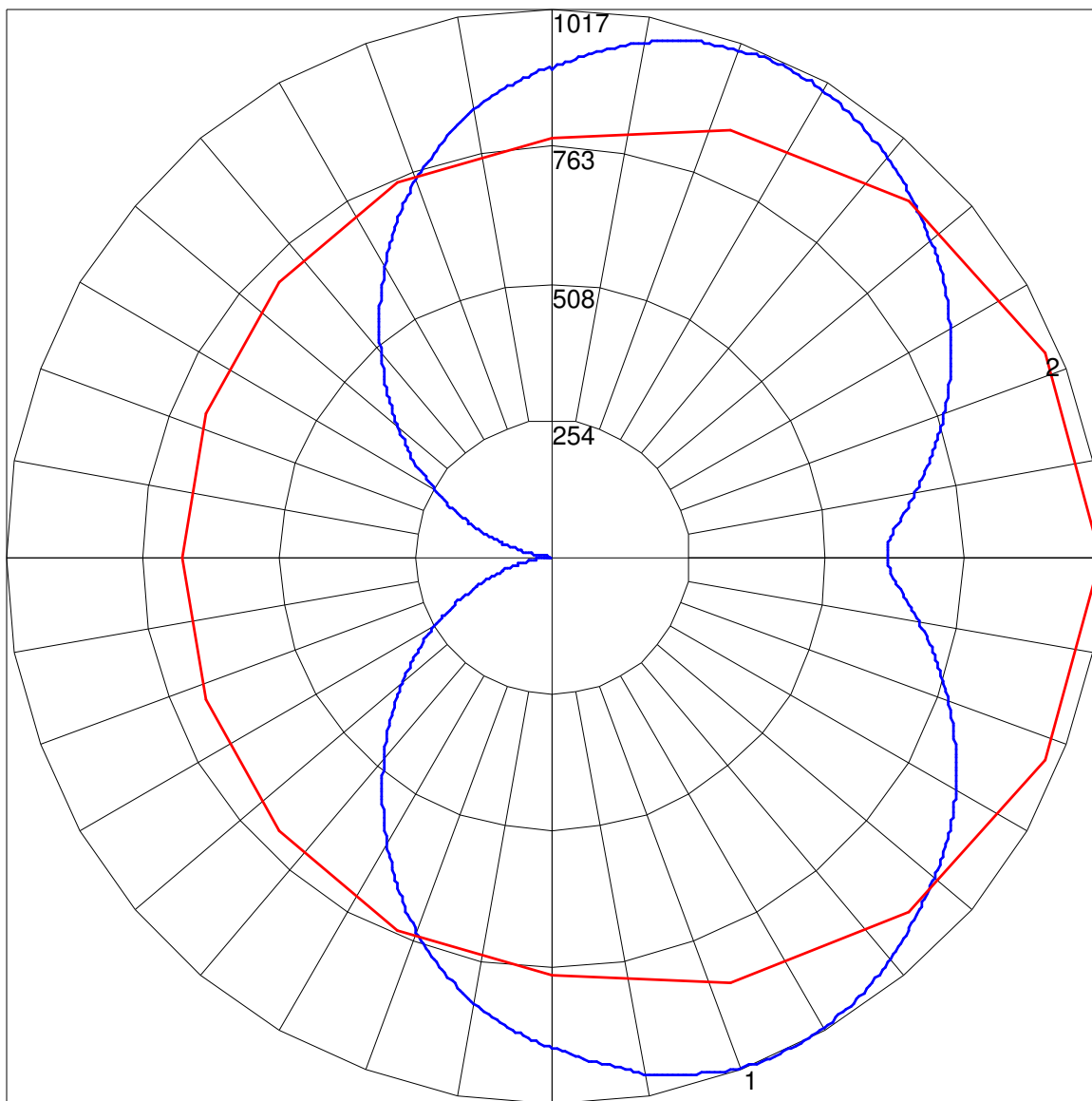
4H	2H	21.3	22.1	22.3	23.1	24.4	16.3	17.1	17.3	18.1	19.4
	3H	24.6	25.3	25.6	26.3	27.6	18.0	18.6	18.9	19.6	20.9
	4H	26.4	27.0	27.4	28.0	29.3	18.5	19.1	19.5	20.1	21.5
	6H	28.3	28.8	29.3	29.8	31.1	18.9	19.4	19.9	20.5	21.8
	8H	29.2	29.7	30.3	30.8	32.1	19.0	19.5	20.0	20.5	21.9
	12H	30.3	30.8	31.4	31.8	33.2	19.0	19.5	20.1	20.5	21.9

8H	4H	26.5	27.0	27.5	28.0	29.4	19.6	20.1	20.6	21.1	22.5
	6H	28.6	29.0	29.6	30.0	31.4	20.3	20.7	21.3	21.7	23.1
	8H	29.7	30.1	30.7	31.1	32.5	20.5	20.9	21.5	21.9	23.3
	12H	31.0	31.3	32.0	32.4	33.8	20.6	20.9	21.6	22.0	23.4

12H	4H	26.5	26.9	27.5	28.0	29.3	20.0	20.4	21.0	21.5	22.8
	6H	28.6	28.9	29.6	30.0	31.4	20.8	21.2	21.8	22.2	23.6
	8H	29.8	30.1	30.8	31.1	32.5	21.1	21.4	22.1	22.5	23.9

Maximum UGR = 33.8

POLAR GRAPH



Maximum Candela = 1016.908 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.)