

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-827U-L19-827D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-3-00-L19-827U-L19-827D-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	3711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	10218	9624	9175
55	10158	9197	8379
65	10175	8864	7433
75	10352	8645	6045
85	10882	8814	4005

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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	555.445	555.445	555.445	555.445	555.445	555.445	555.445	555.445	555.445
0.5	556.226	557.153	556.121	558.236	554.450	557.331	553.589	553.560	553.613
1.0	557.740	558.474	558.162	558.689	554.109	556.499	552.001	551.971	552.061
1.5	559.745	560.248	558.763	559.899	554.109	554.948	551.169	550.041	549.411
2.0	561.445	562.438	560.122	560.010	553.693	553.775	549.655	548.490	547.859
2.5	563.902	563.945	561.933	560.500	553.314	553.018	548.140	547.354	546.382
3.0	565.528	566.209	563.365	560.611	552.936	552.260	547.005	545.082	544.452
3.5	567.680	568.205	564.419	561.896	552.936	550.709	545.111	543.531	543.316
4.0	570.516	570.202	566.230	562.007	552.141	549.194	544.354	541.637	540.666
4.5	571.800	571.857	567.663	561.777	551.763	548.816	542.461	539.744	538.357
5.0	572.513	573.928	568.902	563.024	551.005	546.923	540.189	537.814	536.122
5.5	575.155	575.620	569.310	563.172	549.870	545.029	539.054	535.921	534.986
6.0	576.929	576.970	570.401	562.942	549.075	544.614	537.539	534.370	532.677
6.5	578.362	579.531	571.529	562.748	548.355	543.136	535.572	531.682	530.443
7.0	579.794	581.149	572.278	562.823	547.939	541.926	533.679	529.373	527.755
7.5	581.256	582.499	573.065	562.667	546.009	540.033	531.407	527.480	525.105
8.0	584.068	583.471	574.037	561.679	544.873	538.140	529.514	525.171	522.455
8.5	586.561	584.896	575.009	562.243	544.495	537.004	527.584	522.900	519.842
9.0	589.966	586.395	575.870	561.634	542.602	535.074	525.275	519.834	517.191
9.5	591.651	587.701	576.389	561.820	541.429	532.802	523.003	517.525	516.434
10.0	593.528	589.726	576.871	561.285	540.293	531.251	521.110	515.253	512.269
10.5	595.369	590.921	577.731	560.713	538.400	529.395	518.801	512.566	510.413
11.0	596.489	591.774	578.251	559.800	537.605	527.465	516.114	510.673	507.763
11.5	597.498	593.116	578.391	558.886	535.334	525.193	513.879	507.607	504.355
12.0	598.128	594.081	578.910	558.730	533.819	524.020	511.570	504.956	501.363
12.5	600.310	595.802	579.088	557.817	532.646	520.954	508.920	502.306	498.713
13.0	601.542	596.729	579.340	556.903	531.132	519.061	506.233	499.240	495.001
13.5	602.506	597.961	579.591	556.369	528.481	516.789	503.924	496.174	492.803
14.0	604.338	598.739	579.880	555.492	527.309	513.723	500.516	493.145	489.507
14.5	605.607	599.555	579.338	554.163	525.415	511.830	497.829	490.116	486.137
15.0	605.629	599.955	579.515	553.287	522.728	509.521	495.179	487.087	482.766
15.5	606.415	600.392	579.463	551.579	520.456	507.212	492.113	483.680	480.873
16.0	606.749	601.208	579.032	550.176	518.526	504.562	489.804	480.651	476.293
16.5	608.380	602.024	579.736	549.678	516.633	501.912	486.775	478.000	474.021
17.0	610.168	601.704	579.683	547.971	514.740	498.846	484.087	474.556	471.786
17.5	610.449	602.936	579.215	545.847	512.053	496.916	480.643	472.247	467.963
18.0	611.525	602.615	578.747	544.971	509.402	493.092	477.235	468.839	465.313
18.5	612.979	603.090	578.167	543.338	506.715	490.821	475.684	466.946	461.868
19.0	612.614	603.564	578.040	542.157	504.443	487.755	472.655	463.539	458.460
19.5	614.327	603.623	577.082	540.635	501.756	485.446	469.210	460.131	454.637
20.0	615.172	603.377	576.955	538.622	499.484	482.417	467.696	456.723	451.230
20.5	615.416	603.851	575.655	536.989	497.175	479.351	464.251	453.279	447.406
21.0	615.623	603.568	575.150	534.747	493.768	476.322	460.843	449.871	443.999
21.5	616.246	603.738	574.229	533.603	491.459	474.770	457.814	446.085	440.213
22.0	617.054	603.603	573.345	532.118	488.430	470.984	454.370	442.677	436.389
22.5	617.521	603.469	572.424	530.180	485.364	468.260	450.925	439.270	432.982
23.0	617.193	603.676	571.539	528.205	482.676	464.473	447.518	435.484	429.158
23.5	617.281	603.274	570.997	525.472	479.269	462.959	444.073	431.698	425.372
24.0	617.710	603.213	569.734	524.024	476.997	459.893	440.628	428.253	421.207
24.5	617.954	603.078	568.850	521.819	473.553	456.485	437.221	424.504	417.800
25.0	617.441	602.981	567.209	520.223	472.417	453.004	433.776	420.681	413.977
25.5	616.549	602.126	566.325	518.285	469.729	449.596	430.368	416.894	409.812
26.0	616.793	601.917	565.062	515.211	467.079	446.151	426.545	413.487	406.367
26.5	616.317	600.951	563.836	512.857	463.634	442.744	423.101	409.701	402.165

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CANDELA TABULATION - (Cont.)

27.0	615.462	600.364	563.027	510.919	460.190	439.262	419.314	405.914	398.379
27.5	615.438	600.155	560.739	508.981	457.124	435.855	415.870	402.091	394.556
28.0	615.682	599.189	559.246	505.492	453.716	432.031	412.425	398.305	390.391
28.5	614.679	598.223	558.095	503.895	450.687	428.624	408.639	394.519	386.568
29.0	613.862	598.014	556.943	500.821	446.901	425.179	404.853	390.354	382.782
29.5	613.690	596.291	555.488	497.673	443.456	421.393	401.029	386.568	378.806
30.0	613.399	595.251	553.957	495.698	440.012	417.533	397.622	382.744	374.870
30.5	612.433	594.396	552.427	493.003	436.604	414.125	393.799	378.920	371.083
31.0	612.299	593.809	550.934	490.234	433.196	410.302	390.012	375.096	367.146
31.5	611.481	593.147	548.647	489.016	429.752	406.515	386.226	371.348	363.247
32.0	610.210	592.181	547.533	485.868	425.966	403.071	382.403	367.448	359.498
32.5	610.454	590.836	545.587	484.271	422.521	399.248	378.579	363.661	355.524
33.0	608.390	590.286	543.983	481.576	419.113	395.461	374.755	359.687	351.549
33.5	608.745	588.526	542.000	478.465	415.290	391.638	370.969	355.863	347.725
34.0	608.232	587.218	539.638	475.733	411.504	387.852	367.145	352.114	343.750
34.5	607.035	585.873	537.277	472.585	407.681	384.407	363.321	348.214	339.888
35.0	605.616	584.529	535.710	469.474	403.894	380.508	359.573	344.390	336.140
35.5	604.725	583.600	534.069	466.742	400.487	376.684	355.825	340.529	332.202
36.0	603.298	581.498	531.781	463.631	396.701	372.860	352.001	336.742	328.265
36.5	602.480	580.153	530.177	460.520	392.536	369.037	348.026	333.032	324.365
37.0	601.173	579.224	527.400	457.372	388.713	365.326	344.315	329.133	320.428
37.5	600.013	577.160	525.001	454.261	384.926	361.390	340.529	325.195	316.718
38.0	599.537	575.436	523.471	451.150	381.140	357.566	336.667	321.485	312.705
38.5	597.168	574.129	520.353	448.039	377.279	353.666	332.881	317.624	308.730
39.0	596.009	573.200	518.333	444.550	373.341	349.918	329.019	313.837	304.868
39.5	594.360	571.098	518.621	441.402	369.517	346.094	325.309	309.976	301.044
40.0	593.921	569.790	516.297	438.291	365.580	342.157	321.561	306.190	297.334
40.5	591.626	568.409	513.973	434.801	361.643	338.333	317.661	302.403	293.510
41.0	589.902	566.418	511.574	431.653	357.819	334.509	313.875	298.580	289.611
41.5	587.986	564.695	509.250	428.238	353.806	330.535	310.013	294.869	285.862
42.0	587.510	563.313	506.473	425.164	349.906	326.899	306.228	291.008	282.115
42.5	585.935	561.627	504.111	422.090	345.968	323.038	302.404	287.146	278.403
43.0	583.981	558.768	501.676	419.091	342.031	319.138	298.618	283.512	274.467
43.5	583.052	557.423	499.351	415.675	337.904	315.238	294.718	279.613	270.794
44.0	581.062	555.700	496.648	412.260	334.042	311.415	290.818	275.789	267.197
44.5	579.487	554.014	493.834	408.808	330.029	307.629	286.995	272.041	263.450
45.0	578.327	552.669	491.510	405.697	326.091	303.616	283.209	268.179	259.777
45.5	575.847	550.225	488.769	402.283	322.155	299.754	279.271	264.469	255.916
46.0	575.675	548.539	486.029	398.907	318.141	295.854	275.485	260.720	252.205
46.5	573.380	547.573	483.668	395.492	314.165	291.993	271.585	256.897	248.646
47.0	572.525	546.986	480.928	392.003	310.039	288.131	267.761	253.224	245.050
47.5	571.255	545.411	478.151	388.701	305.950	284.193	263.938	249.438	241.226
48.0	569.717	543.198	475.522	385.399	301.899	280.143	260.189	245.841	237.516
48.5	567.236	541.207	472.670	382.060	297.923	276.205	256.290	242.094	233.843
49.0	565.699	539.105	469.967	378.606	293.948	272.305	252.466	238.459	230.095
49.5	564.198	537.003	467.190	375.154	289.935	268.481	248.717	234.787	226.536
50.0	564.405	535.354	464.413	371.777	285.884	264.582	244.970	231.115	222.787
50.5	561.694	533.252	461.710	368.289	281.870	260.569	241.108	227.631	219.154
51.0	561.181	531.225	459.007	364.913	277.895	256.707	237.360	223.921	215.482
51.5	559.301	529.160	455.851	361.422	273.919	252.732	233.536	220.248	211.923
52.0	557.422	526.679	453.037	357.782	269.868	248.907	229.863	216.652	208.439
52.5	555.810	524.615	450.334	354.368	265.893	245.046	226.115	213.055	204.805
53.0	553.819	522.476	447.215	350.803	261.879	241.109	222.329	209.459	201.132
53.5	551.829	520.448	444.400	347.276	257.980	237.133	218.543	205.900	197.460
54.0	549.986	518.309	441.472	343.673	253.929	233.309	214.795	202.227	194.203
54.5	547.996	515.977	438.429	340.032	250.029	229.523	211.085	198.707	190.608

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CANDELA TABULATION - (Cont.)

55.0	546.079	513.838	435.538	336.506	246.054	225.586	207.337	195.072	186.972
55.5	544.126	511.357	432.684	332.827	242.116	221.611	203.627	191.475	183.489
56.0	542.209	509.292	429.717	329.262	238.103	217.787	199.954	188.029	179.817
56.5	540.367	506.812	426.636	325.546	234.127	213.888	196.130	184.319	176.448
57.0	538.413	504.784	423.595	321.867	230.114	210.063	192.571	180.912	173.115
57.5	536.081	502.341	420.664	318.189	226.176	206.089	188.937	177.240	169.443
58.0	534.016	499.823	417.660	314.396	222.087	202.226	185.188	173.794	165.922
58.5	532.174	497.380	414.581	310.718	218.074	198.402	181.591	170.273	162.363
59.0	530.220	495.011	411.387	306.926	213.985	194.541	177.995	166.714	158.993
59.5	527.925	492.456	408.419	303.134	209.858	190.641	174.436	163.269	155.548
60.0	525.445	489.975	405.226	299.456	205.807	186.704	170.877	159.785	152.065
60.5	523.187	487.532	402.259	295.778	201.793	182.842	167.243	156.340	148.581
61.0	521.233	485.050	399.179	292.175	197.818	178.943	163.608	152.857	145.136
61.5	518.864	482.569	396.099	288.459	193.767	175.156	159.973	149.373	141.653
62.0	516.116	479.937	392.868	284.667	189.790	171.257	156.490	145.891	138.321
62.5	513.784	477.342	389.824	280.951	185.701	167.433	152.855	142.370	134.800
63.0	511.452	474.860	386.783	277.235	181.764	163.496	149.221	138.924	131.430
63.5	509.120	472.114	383.703	273.518	177.750	159.596	145.661	135.516	127.947
64.0	506.825	469.444	380.472	269.802	173.737	155.886	142.064	131.995	124.691
64.5	504.114	466.812	377.430	266.086	169.762	152.024	138.392	128.549	121.548
65.0	501.517	464.180	374.086	262.219	165.749	148.237	134.719	125.142	118.027
65.5	498.885	461.397	371.005	258.389	161.698	144.376	131.198	121.696	114.695
66.0	496.325	458.537	367.887	254.674	157.759	140.514	127.525	118.327	111.439
66.5	493.916	455.792	364.582	250.921	153.822	136.653	124.005	114.843	108.183
67.0	491.205	453.046	361.501	247.167	149.884	132.866	120.559	111.511	105.040
67.5	488.571	450.300	358.193	243.299	145.945	129.156	117.038	108.142	101.746
68.0	485.973	447.442	354.964	239.471	141.819	125.483	113.479	104.810	98.376
68.5	483.225	444.582	351.771	235.679	137.844	121.621	109.920	101.478	95.045
69.0	480.818	441.762	348.426	231.964	133.944	117.949	106.399	98.146	91.978
69.5	478.108	439.016	345.308	228.286	130.044	114.163	103.067	94.890	88.797
70.0	475.548	436.156	341.964	224.608	126.107	110.490	99.622	91.634	85.616
70.5	472.912	433.259	338.733	220.892	122.208	106.742	96.214	88.302	82.323
71.0	470.352	430.399	335.464	217.065	118.269	103.108	92.807	85.160	79.143
71.5	467.754	427.540	332.046	213.387	114.559	99.473	89.476	82.017	76.000
72.0	464.933	424.493	328.852	209.823	110.696	95.838	86.143	78.875	73.122
72.5	462.259	421.709	325.583	206.184	106.570	92.241	82.849	75.846	69.904
73.0	459.475	418.774	322.390	202.657	102.859	88.720	79.631	72.665	66.875
73.5	456.764	415.765	319.161	199.017	99.035	85.313	76.375	69.560	63.770
74.0	454.090	412.868	315.818	195.378	95.286	81.867	73.157	66.606	60.818
74.5	451.193	409.822	312.586	191.777	91.652	78.460	70.014	63.615	58.054
75.0	448.444	406.925	309.207	188.288	87.979	75.052	66.909	60.663	55.063
75.5	445.622	403.916	305.978	184.650	84.381	71.720	63.804	57.634	52.222
76.0	442.762	401.019	302.899	181.087	80.784	68.464	60.662	54.794	49.458
76.5	439.898	397.973	299.595	177.710	77.188	65.246	57.557	51.841	46.733
77.0	437.000	395.115	296.365	174.110	73.703	62.028	54.679	49.077	44.195
77.5	434.101	392.107	293.137	170.772	70.144	58.847	51.689	46.275	41.545
78.0	431.279	389.211	290.021	167.361	66.813	55.667	48.774	43.587	38.970
78.5	428.229	386.205	286.941	164.136	63.443	52.562	45.896	40.936	36.396
79.0	425.370	383.121	283.789	160.726	60.186	49.571	43.056	38.286	33.783
79.5	422.472	380.227	280.710	157.427	56.892	46.618	40.292	35.635	31.398
80.0	419.501	377.294	277.596	154.168	53.635	43.739	37.604	33.137	28.975
80.5	416.528	374.326	274.481	151.095	50.493	40.862	34.953	30.638	26.627
81.0	413.744	371.469	271.592	148.024	47.463	38.060	32.379	28.215	24.204
81.5	410.884	368.386	268.592	144.953	44.510	35.371	29.841	25.829	21.857
82.0	407.987	365.530	265.703	141.883	41.594	32.721	27.305	23.482	19.662
82.5	405.390	362.939	262.854	138.925	38.679	30.184	24.957	21.323	17.578

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CANDELA TABULATION - (Cont.)

83.0	402.570	360.158	259.930	136.155	35.877	27.610	22.609	19.127	15.420
83.5	399.901	357.339	257.081	133.424	33.189	25.110	20.376	16.969	13.338
84.0	397.306	354.673	254.383	130.695	30.576	22.725	18.180	14.886	11.293
84.5	394.635	351.931	251.648	127.965	28.002	20.415	15.946	12.804	9.400
85.0	392.116	349.151	248.952	125.386	25.503	18.181	13.825	10.873	7.696
85.5	389.634	346.598	246.141	122.808	23.042	15.947	11.780	9.018	6.181
86.0	387.155	344.155	243.444	120.343	20.657	13.789	9.811	7.352	5.083
86.5	384.859	341.935	241.011	117.878	18.347	11.706	7.918	6.064	4.325
87.0	382.748	340.384	238.611	115.601	16.151	9.661	6.252	5.042	3.833
87.5	381.231	339.206	236.809	113.250	13.955	7.692	5.078	4.397	3.529
88.0	380.497	338.659	235.525	110.936	11.721	5.761	4.245	3.943	3.376
88.5	379.944	338.259	234.721	108.917	9.487	4.171	3.790	3.602	3.188
89.0	379.615	338.159	234.516	107.531	7.215	3.413	3.525	3.488	3.149
89.5	379.549	338.096	234.347	107.072	5.282	3.148	3.411	3.374	3.111
90.0	379.593	338.070	234.367	107.098	4.518	3.072	3.373	3.373	3.148
90.5	379.301	338.158	234.389	107.313	5.367	3.071	3.372	3.373	3.110
91.0	379.459	338.435	234.672	108.321	7.221	3.107	3.334	3.410	3.110
91.5	379.543	338.938	235.296	110.087	9.445	3.701	3.371	3.372	3.072
92.0	380.004	339.743	236.713	112.195	11.596	4.775	3.482	3.334	3.146
92.5	380.503	341.114	238.659	114.302	13.672	6.518	3.778	3.445	3.220
93.0	381.531	342.827	240.982	116.747	15.748	8.558	4.520	3.593	3.480
93.5	382.862	344.991	243.456	118.928	17.899	10.597	5.781	4.001	4.073
94.0	384.834	347.458	246.003	121.408	20.161	12.674	7.486	4.816	5.223
94.5	387.223	349.963	248.400	123.851	22.460	14.676	9.452	6.115	6.817
95.0	389.724	352.654	251.209	126.292	24.833	16.864	11.453	7.672	8.596
95.5	392.226	355.382	253.906	128.846	27.281	19.089	13.530	9.563	10.637
96.0	394.840	357.922	256.563	131.474	29.802	21.313	15.756	11.603	12.639
96.5	397.378	360.537	259.296	134.214	32.397	23.650	17.944	13.642	14.790
97.0	399.954	363.191	262.029	136.990	35.067	25.986	20.206	15.793	16.978
97.5	402.604	365.916	264.800	139.766	37.849	28.470	22.505	18.056	19.129
98.0	405.177	368.642	267.571	142.727	40.592	30.992	24.804	20.243	21.316
98.5	407.901	371.443	270.491	145.726	43.523	33.588	27.213	22.542	23.690
99.0	410.587	374.281	273.410	148.686	46.564	36.369	29.699	24.878	26.063
99.5	413.274	377.043	276.366	151.797	49.604	39.113	32.257	27.326	28.548
100.0	415.959	379.881	279.397	154.943	52.718	42.005	34.815	29.774	30.921
100.5	418.645	382.755	282.389	158.089	55.908	44.898	37.485	32.221	33.443
101.0	421.480	385.554	285.456	161.347	59.172	47.790	40.267	34.743	35.927
101.5	424.091	388.351	288.485	164.568	62.471	50.906	43.011	37.301	38.560
102.0	426.925	391.265	291.662	167.863	65.846	53.797	45.867	39.934	41.268
102.5	429.647	394.063	294.727	171.120	69.220	57.061	48.722	42.641	43.938
103.0	432.446	396.936	297.830	174.414	72.744	60.918	51.652	45.348	46.682
103.5	435.242	399.773	300.969	177.783	76.304	64.107	54.618	48.130	49.389
104.0	438.041	402.608	304.147	181.226	79.789	66.813	57.585	50.949	52.281
104.5	440.761	405.594	307.285	184.594	83.349	70.225	60.700	53.840	55.174
105.0	443.633	408.393	310.387	187.962	87.058	73.489	63.778	56.771	58.103
105.5	446.094	411.266	313.600	191.406	90.730	76.937	66.893	59.700	61.033
106.0	448.927	414.139	316.702	194.885	94.437	80.794	70.082	62.667	64.037
106.5	451.575	416.899	319.804	198.403	98.257	84.799	73.309	65.671	67.003
107.0	454.335	419.735	322.942	201.808	102.003	87.728	76.498	68.748	70.230
107.5	457.094	422.608	326.044	205.325	105.822	90.880	79.835	71.789	73.234
108.0	459.741	425.406	329.259	208.916	109.642	94.440	83.098	75.053	76.386
108.5	462.351	428.204	332.434	212.508	113.536	98.075	86.399	78.167	79.501
109.0	465.147	430.890	335.574	216.061	117.393	101.671	89.810	81.431	82.690
109.5	467.720	433.877	338.712	219.578	121.249	105.306	93.186	84.583	85.842
110.0	470.404	436.488	341.777	223.244	125.180	108.977	96.523	87.847	89.144
110.5	473.014	439.287	344.730	226.834	129.111	112.648	99.972	91.110	92.370

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CANDELA TABULATION - (Cont.)

111.0	475.662	441.900	347.831	230.426	133.079	116.358	103.420	94.411	95.670
111.5	478.237	444.624	350.971	234.092	137.046	120.066	106.832	97.748	98.822
112.0	480.698	447.349	354.034	237.720	141.014	123.811	110.355	101.086	102.010
112.5	483.345	450.037	357.174	241.422	145.094	127.631	113.915	104.386	105.275
113.0	485.730	452.724	360.276	245.049	149.025	131.450	117.401	107.686	108.612
113.5	488.341	455.375	363.339	248.826	152.993	135.307	120.998	111.098	112.024
114.0	490.839	457.912	366.403	252.454	157.072	139.090	124.669	114.473	115.361
114.5	493.300	460.524	369.468	256.119	161.003	142.984	129.044	117.959	118.698
115.0	495.613	463.176	372.532	259.822	165.008	146.841	133.717	121.408	122.111
115.5	497.964	465.788	375.559	263.487	169.050	150.772	137.054	124.782	125.411
116.0	500.499	468.215	378.661	267.152	173.092	154.628	139.354	128.231	129.008
116.5	502.776	470.829	381.575	270.818	177.060	158.485	142.543	131.680	132.383
117.0	505.311	473.442	384.715	274.520	181.103	162.490	146.771	135.202	135.906
117.5	507.550	475.831	387.667	278.147	185.219	166.310	151.518	138.577	139.243
118.0	509.790	478.405	390.656	281.850	189.150	170.315	155.300	142.138	142.729
118.5	511.915	480.796	393.795	285.477	193.229	174.246	157.897	145.511	146.178
119.0	514.193	483.111	396.711	289.180	197.272	178.103	160.789	149.146	149.739
119.5	516.470	485.797	399.700	292.808	201.314	181.923	164.349	152.632	153.075
120.0	518.634	488.226	402.653	296.399	205.431	185.816	167.983	156.192	156.785
120.5	520.835	490.579	405.605	299.915	209.435	189.785	171.655	159.716	160.196
121.0	523.037	492.894	408.596	303.580	213.329	193.641	175.289	163.313	163.683
121.5	525.276	495.323	411.474	307.133	217.408	197.461	178.923	167.577	167.168
122.0	527.107	497.676	414.428	310.799	221.450	201.318	182.706	172.436	170.728
122.5	529.384	499.583	417.268	314.353	225.418	205.138	186.340	176.588	174.325
123.0	531.624	502.011	420.184	317.906	229.424	209.069	190.049	179.333	177.885
123.5	533.863	504.289	423.138	321.422	233.466	212.889	193.757	182.633	181.556
124.0	535.732	506.309	426.090	324.939	237.396	216.782	197.503	186.936	186.489
124.5	537.971	508.624	428.929	328.530	241.439	220.714	201.212	190.570	192.905
125.0	539.916	511.015	431.883	332.082	245.370	224.459	204.994	193.017	197.021
125.5	541.746	512.997	434.798	335.637	249.412	228.353	208.703	195.614	198.950
126.0	543.948	515.350	437.529	339.041	253.343	232.210	212.448	199.062	199.617
126.5	545.779	517.408	440.442	342.521	257.273	235.993	216.120	202.622	202.732
127.0	547.723	519.761	443.545	346.001	261.279	239.924	219.828	206.220	206.292
127.5	549.629	521.743	446.201	349.369	265.247	243.743	223.574	209.780	209.890
128.0	551.460	523.763	448.781	352.885	269.141	247.674	227.357	213.377	213.561
128.5	553.367	526.116	451.845	356.364	273.183	251.605	230.953	217.012	217.158
129.0	555.273	528.136	454.501	359.769	277.188	255.425	234.848	220.719	220.829
129.5	555.250	530.118	457.157	363.212	281.156	259.281	238.667	224.317	224.500
130.0	557.194	532.101	460.222	366.654	285.087	263.138	242.450	227.914	228.172
130.5	558.359	534.083	462.840	370.134	289.018	267.070	246.233	231.511	231.881
131.0	560.190	535.656	465.496	373.501	293.023	270.926	249.903	235.146	235.515
131.5	560.651	537.381	468.152	376.907	297.065	274.746	253.650	238.854	239.187
132.0	563.556	538.993	470.808	380.275	301.033	278.565	257.506	242.526	242.969
132.5	565.500	540.566	473.464	383.643	305.076	282.460	261.251	246.197	246.639
133.0	566.332	541.920	476.119	386.937	309.081	286.279	265.145	249.795	250.312
133.5	568.163	543.161	478.775	390.342	312.975	290.173	268.890	253.948	253.983
134.0	570.811	545.552	481.393	393.785	316.906	294.067	272.748	257.582	257.766
134.5	571.605	547.163	483.678	397.153	320.874	297.850	276.567	261.291	261.400
135.0	573.474	549.554	486.334	400.596	324.842	301.817	280.312	265.036	265.295
135.5	575.789	550.757	488.990	403.593	328.810	305.711	284.170	268.819	268.891
136.0	576.545	552.406	491.533	407.036	332.741	309.606	287.915	272.416	272.674
136.5	579.155	554.055	493.893	410.365	336.635	313.350	291.698	276.162	276.270
137.0	579.208	555.999	496.141	413.771	340.603	317.281	295.517	279.834	280.203
137.5	581.371	558.019	498.834	416.843	344.461	321.214	299.188	283.503	283.911
138.0	582.165	559.260	500.264	420.135	348.352	324.994	302.931	287.174	287.391
138.5	584.443	561.651	502.216	423.170	352.098	328.813	306.752	291.069	291.362

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CANDELA TABULATION - (Cont.)

139.0	585.721	562.558	504.872	426.537	355.955	332.522	310.498	294.740	295.145
139.5	586.772	564.132	506.749	429.496	359.850	336.416	314.244	298.486	298.891
140.0	587.937	565.819	509.072	432.493	363.670	340.124	317.878	302.157	302.600
140.5	589.881	567.506	510.244	435.822	367.527	343.982	321.735	306.015	306.606
141.0	591.008	569.117	512.159	438.781	371.458	347.728	325.555	309.945	310.536
141.5	592.544	569.692	514.814	442.111	375.352	351.510	329.300	313.802	314.356
142.0	593.414	571.750	516.691	445.107	379.060	355.293	333.045	317.659	318.213
142.5	594.579	573.361	519.014	448.066	382.769	359.001	336.753	321.330	322.069
143.0	596.409	574.564	520.890	451.101	386.477	362.783	340.461	325.038	325.889
143.5	597.983	575.472	522.805	454.135	390.556	366.640	344.318	328.969	329.746
144.0	597.294	576.788	525.090	457.170	394.302	370.422	348.025	332.825	333.602
144.5	599.314	578.475	527.004	460.166	398.048	373.982	351.809	336.644	337.458
145.0	601.182	579.753	528.547	462.868	401.756	377.691	355.517	340.352	341.464
145.5	601.272	581.032	531.203	465.902	405.465	381.437	359.224	344.172	345.172
146.0	602.399	581.864	532.709	468.604	408.840	385.145	362.858	347.880	348.992
146.5	604.457	583.551	534.661	470.526	412.548	388.853	366.530	351.662	352.811
147.0	605.289	584.383	536.537	473.190	416.256	392.561	370.349	355.406	356.667
147.5	606.863	586.108	538.119	475.150	419.632	396.345	374.020	359.189	360.375
148.0	606.877	586.274	540.033	477.443	423.340	400.016	377.728	362.971	364.269
148.5	607.005	587.181	541.206	480.477	426.715	403.353	381.475	366.754	368.052
149.0	608.132	588.868	543.120	483.141	430.461	406.729	385.145	370.461	371.908
149.5	608.707	588.292	544.292	485.101	433.799	410.475	388.853	374.058	375.617
150.0	609.054	589.904	546.207	488.173	437.136	414.183	392.561	377.766	379.696
150.5	610.257	590.811	548.530	490.504	440.474	417.558	396.270	381.845	383.404
151.0	610.309	591.719	548.998	493.205	443.849	420.896	399.645	385.516	387.446
151.5	611.550	591.923	551.284	495.498	447.224	424.604	403.353	389.262	391.192
152.0	611.640	592.497	552.123	498.200	450.600	427.979	407.062	392.932	395.233
152.5	611.322	593.405	553.704	500.160	453.937	431.317	410.808	396.641	398.979
153.0	611.412	593.571	555.286	502.861	456.941	434.692	414.107	399.978	402.687
153.5	612.614	594.516	556.458	505.192	458.833	438.029	417.853	404.057	406.396
154.0	611.963	595.091	557.298	507.894	462.542	441.775	421.191	407.727	410.513
154.5	612.795	595.295	558.062	509.854	465.137	444.742	424.899	411.436	414.259
155.0	613.589	595.832	559.568	511.814	467.400	448.155	428.274	414.773	417.929
155.5	613.346	595.702	560.627	514.182	470.034	451.455	431.983	418.481	421.675
156.0	612.286	596.277	561.315	516.104	473.371	454.868	435.358	422.190	425.346
156.5	613.118	596.889	562.079	518.473	476.005	456.722	438.695	425.860	428.683
157.0	613.503	596.685	563.213	520.471	479.009	460.097	442.033	429.197	432.429
157.5	611.799	596.926	563.977	522.022	481.605	463.064	445.779	432.906	436.137
158.0	611.912	596.055	564.855	523.982	484.239	466.031	449.116	436.614	439.846
158.5	610.920	596.297	565.362	525.609	487.205	468.293	452.083	439.951	443.183
159.0	609.897	596.539	566.239	527.569	489.839	471.260	454.308	443.289	446.891
159.5	610.881	596.742	566.746	529.566	492.064	474.597	458.796	446.997	450.229
160.0	609.669	596.538	567.290	531.155	495.069	477.231	460.650	450.335	453.937
160.5	608.798	596.295	568.206	532.412	497.331	480.236	464.025	453.672	457.312
161.0	609.108	596.347	568.750	534.039	499.185	482.831	466.621	456.268	460.983
161.5	608.388	594.992	569.628	535.628	502.152	485.798	468.884	459.605	463.949
162.0	607.896	594.416	568.727	537.255	504.006	488.432	472.221	462.943	465.357
162.5	606.503	593.508	570.013	537.769	507.011	491.436	474.817	465.538	468.619
163.0	606.109	594.120	569.854	539.767	508.903	494.403	478.563	468.134	471.472
163.5	605.420	592.916	570.065	540.614	511.498	496.665	481.159	471.472	474.771
164.0	605.623	592.901	570.610	541.870	513.353	498.890	483.754	474.438	477.700
164.5	604.420	591.735	570.451	542.718	515.615	501.486	487.130	477.813	481.703
165.0	603.254	591.681	570.662	543.974	517.840	504.453	490.096	480.409	484.670
165.5	601.346	589.774	570.541	545.192	520.103	506.345	492.321	483.005	487.266
166.0	601.331	589.054	570.344	546.448	521.957	508.570	494.955	486.342	490.898
166.5	600.498	588.297	570.593	547.705	523.441	511.203	497.884	489.309	494.236

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167.0	599.589	587.540	570.101	547.515	525.333	513.057	500.888	491.943	497.202
167.5	597.976	586.117	569.980	548.438	526.854	515.282	502.742	495.318	499.798
168.0	595.403	585.026	569.858	549.362	528.708	517.545	505.747	498.285	502.802
168.5	595.016	584.156	569.737	550.323	530.562	519.770	508.751	501.289	505.731
169.0	592.776	582.876	568.874	549.762	532.454	521.995	510.567	503.514	508.289
169.5	591.648	581.491	568.752	551.019	533.529	523.478	513.534	506.851	510.476
170.0	590.520	580.068	568.260	551.238	534.641	525.741	515.797	509.076	513.443
170.5	589.430	579.424	567.064	551.828	535.791	527.595	517.689	511.710	516.076
171.0	587.151	578.077	567.352	552.085	536.533	529.449	519.581	514.306	518.339
171.5	585.357	576.729	565.747	552.343	538.425	530.600	521.844	516.977	521.306
172.0	584.381	575.049	565.701	552.933	539.946	532.454	524.069	518.461	523.455
172.5	582.624	573.406	564.505	552.819	541.021	534.308	526.294	521.427	526.384
173.0	580.165	572.059	563.385	552.744	541.800	536.162	528.519	523.652	527.829
173.5	578.855	570.378	563.044	553.409	542.504	536.904	530.373	525.506	530.463
174.0	577.470	569.069	561.553	553.334	542.875	538.758	531.856	527.769	533.021
174.5	575.305	566.685	560.509	553.258	544.025	540.612	533.672	529.994	534.133
175.0	573.140	565.042	559.464	552.479	545.138	541.725	535.156	531.810	536.320
175.5	571.013	563.475	558.457	553.220	545.842	542.428	537.048	533.702	537.804
176.0	570.445	561.946	557.489	553.182	546.621	543.950	538.864	535.594	540.808
176.5	567.357	559.751	556.558	552.849	546.954	544.691	541.127	537.486	541.958
177.0	565.753	558.374	554.961	552.849	547.030	545.804	541.497	539.303	543.813
177.5	563.368	556.293	554.514	552.108	547.734	546.174	543.352	540.786	544.887
178.0	561.136	555.029	553.735	552.108	548.104	547.287	544.426	543.049	547.892
178.5	558.759	552.728	552.622	551.737	548.104	548.399	545.539	544.494	549.708
179.0	557.162	551.948	551.139	551.737	548.475	548.770	547.431	545.977	550.450
179.5	555.641	550.503	550.397	550.995	548.475	549.512	548.172	547.128	553.454
180.0	549.875	549.875	549.875	549.875	549.875	549.875	549.875	549.875	549.875

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-827U-L19-827D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	204.15	N.A.	5.50
0-30	433.68	N.A.	11.70
0-40	711.39	N.A.	19.20
0-60	1288.48	N.A.	34.70
0-80	1725.66	N.A.	46.50
0-90	1862.99	N.A.	50.20
10-90	1810.25	N.A.	48.80
20-40	507.23	N.A.	13.70
20-50	801.69	N.A.	21.60
40-70	822.81	N.A.	22.20
60-80	437.18	N.A.	11.80
70-80	191.47	N.A.	5.20
80-90	137.33	N.A.	3.70
90-110	327.56	N.A.	8.80
90-120	571.54	N.A.	15.40
90-130	852.18	N.A.	23.00
90-150	1419.59	N.A.	38.20
90-180	1848.45	N.A.	49.80
110-180	1520.9	N.A.	41.00
0-180	3711.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.74
10-20	151.42
20-30	229.52
30-40	277.71
40-50	294.46
50-60	282.63
60-70	245.71
70-80	191.47
80-90	137.33
90-100	137.13
100-110	190.43
110-120	243.98
120-130	280.64
130-140	292.21
140-150	275.21
150-160	227.07
160-170	149.64
170-180	52.15

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-827U-L19-827D-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-L19-827U-L19-827D-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

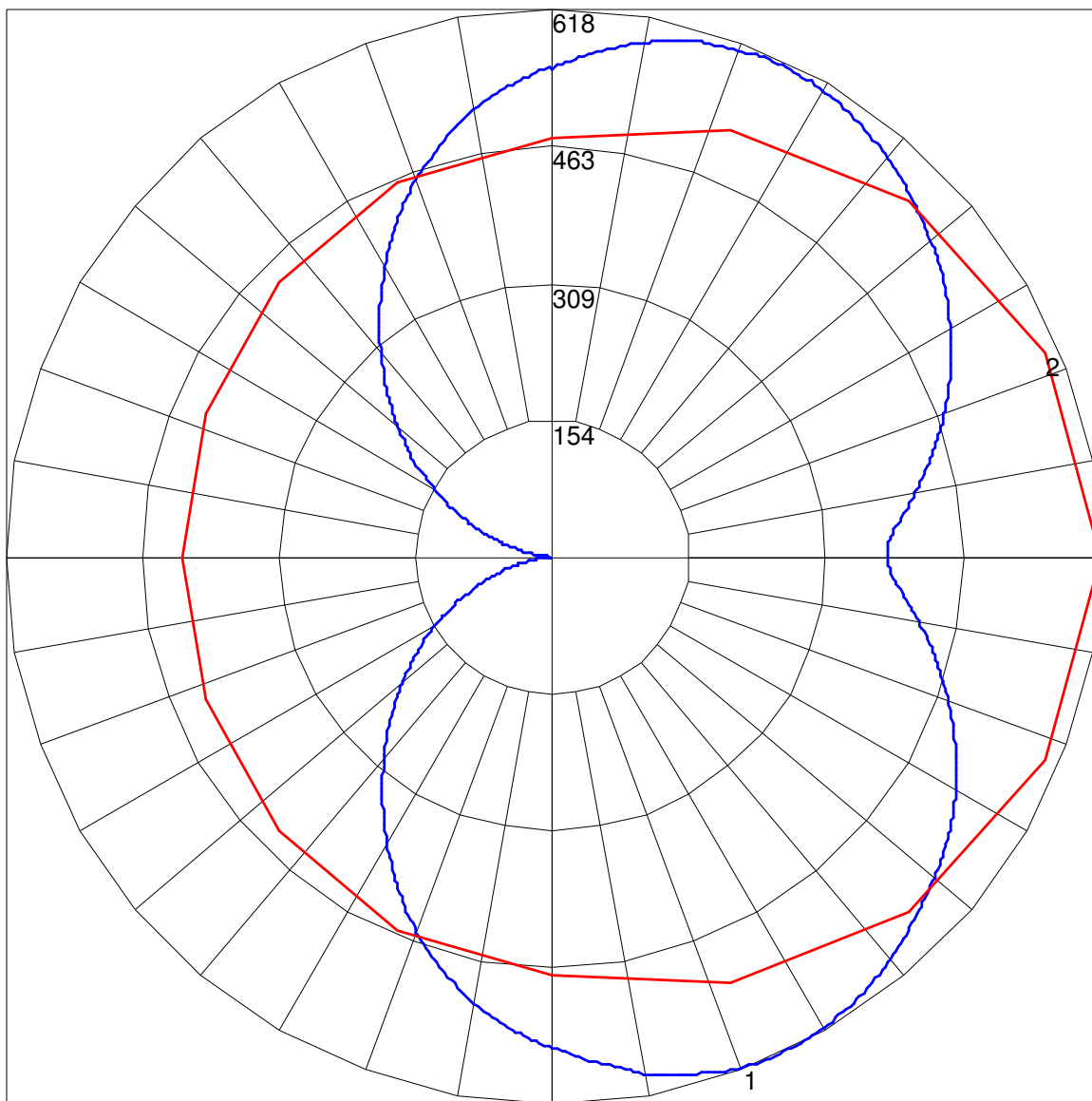
X=2H	Y=2H	19.3	20.2	20.3	21.2	22.5	13.4	14.3	14.3	15.3	16.5
	3H	22.4	23.2	23.4	24.2	25.5	14.7	15.6	15.7	16.5	17.8
	4H	24.0	24.8	25.0	25.8	27.0	15.2	15.9	16.1	16.9	18.2
	6H	25.7	26.4	26.6	27.4	28.7	15.4	16.1	16.4	17.1	18.4
	8H	26.5	27.2	27.5	28.3	29.6	15.5	16.1	16.4	17.2	18.5
	12H	27.5	28.2	28.5	29.2	30.5	15.5	16.1	16.5	17.1	18.5

UGR Viewed Endwise

4H	2H	19.6	20.4	20.6	21.4	22.7	14.6	15.4	15.6	16.4	17.7
	3H	22.9	23.6	23.9	24.6	25.9	16.3	16.9	17.2	17.9	19.2
	4H	24.7	25.3	25.7	26.3	27.6	16.8	17.4	17.8	18.4	19.8
	6H	26.6	27.1	27.6	28.1	29.4	17.2	17.7	18.2	18.8	20.1
	8H	27.5	28.0	28.6	29.1	30.4	17.3	17.8	18.3	18.8	20.2
	12H	28.6	29.1	29.7	30.1	31.5	17.3	17.8	18.4	18.8	20.2
8H	4H	24.8	25.3	25.8	26.3	27.7	17.9	18.4	18.9	19.4	20.8
	6H	26.9	27.3	27.9	28.3	29.7	18.6	19.0	19.6	20.0	21.4
	8H	28.0	28.4	29.0	29.4	30.8	18.8	19.2	19.8	20.2	21.6
	12H	29.3	29.6	30.3	30.7	32.1	18.9	19.2	19.9	20.3	21.7
12H	4H	24.8	25.2	25.8	26.3	27.6	18.3	18.7	19.3	19.8	21.1
	6H	26.9	27.2	27.9	28.3	29.7	19.1	19.5	20.1	20.5	21.9
	8H	28.1	28.4	29.1	29.4	30.8	19.4	19.7	20.4	20.8	22.2

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 617.954 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.)