

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-835U-L19-835D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFACT] H E Williams Inc
[LUMCAT] CMH-3-00-L19-835U-L19-835D-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	3826
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	10534	9922	9459
55	10472	9482	8638
65	10490	9138	7663
75	10672	8912	6232
85	11218	9086	4129

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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	572.624	572.624	572.624	572.624	572.624	572.624	572.624	572.624	572.624
0.5	573.429	574.385	573.320	575.501	571.598	574.568	570.711	570.680	570.735
1.0	574.990	575.747	575.425	575.968	571.246	573.711	569.073	569.043	569.135
1.5	577.057	577.576	576.045	577.216	571.246	572.111	568.216	567.053	566.403
2.0	578.809	579.833	577.445	577.330	570.817	570.902	566.654	565.453	564.803
2.5	581.342	581.386	579.312	577.835	570.427	570.121	565.093	564.282	563.280
3.0	583.018	583.720	580.789	577.950	570.037	569.341	563.922	561.940	561.290
3.5	585.237	585.779	581.875	579.274	570.037	567.741	561.971	560.341	560.119
4.0	588.161	587.837	583.742	579.389	569.218	566.180	561.190	558.389	557.387
4.5	589.485	589.543	585.219	579.151	568.827	565.789	559.238	556.438	555.007
5.0	590.219	591.678	586.497	580.437	568.047	563.838	556.896	554.448	552.703
5.5	592.943	593.422	586.917	580.590	566.876	561.886	555.725	552.496	551.532
6.0	594.772	594.815	588.042	580.352	566.057	561.457	554.164	550.896	549.152
6.5	596.249	597.454	589.205	580.153	565.315	559.934	552.136	548.126	546.848
7.0	597.726	599.122	589.978	580.230	564.886	558.687	550.184	545.746	544.078
7.5	599.233	600.515	590.789	580.069	562.896	556.735	547.842	543.794	541.345
8.0	602.132	601.517	591.791	579.051	561.725	554.784	545.891	541.414	538.613
8.5	604.702	602.986	592.793	579.632	561.335	553.613	543.901	539.072	535.919
9.0	608.213	604.531	593.680	579.004	559.383	551.623	541.521	535.911	533.187
9.5	609.949	605.877	594.215	579.195	558.174	549.281	539.179	533.531	532.406
10.0	611.885	607.965	594.712	578.644	557.003	547.681	537.227	531.189	528.113
10.5	613.782	609.197	595.599	578.055	555.051	545.768	534.847	528.418	526.199
11.0	614.937	610.076	596.135	577.113	554.232	543.778	532.076	526.467	523.467
11.5	615.977	611.460	596.280	576.171	551.890	541.436	529.772	523.306	519.954
12.0	616.627	612.454	596.815	576.010	550.329	540.227	527.392	520.574	516.869
12.5	618.876	614.229	596.998	575.069	549.120	537.066	524.660	517.841	514.137
13.0	620.146	615.185	597.257	574.127	547.559	535.114	521.889	514.680	510.310
13.5	621.140	616.454	597.517	573.576	544.826	532.772	519.509	511.520	508.045
14.0	623.029	617.257	597.815	572.673	543.617	529.612	515.996	508.397	504.647
14.5	624.337	618.098	597.255	571.302	541.665	527.660	513.226	505.274	501.172
15.0	624.359	618.511	597.439	570.399	538.895	525.280	510.493	502.152	497.697
15.5	625.170	618.961	597.384	568.639	536.553	522.899	507.333	498.639	495.745
16.0	625.514	619.802	596.940	567.192	534.563	520.167	504.952	495.516	491.023
16.5	627.196	620.643	597.666	566.679	532.611	517.435	501.830	492.784	488.681
17.0	629.039	620.313	597.612	564.918	530.660	514.274	499.059	489.233	486.378
17.5	629.329	621.583	597.129	562.729	527.889	512.284	495.508	486.852	482.436
18.0	630.438	621.253	596.646	561.826	525.157	508.343	491.995	483.339	479.704
18.5	631.937	621.742	596.048	560.142	522.386	506.001	490.396	481.388	476.153
19.0	631.561	622.231	595.918	558.925	520.044	502.840	487.273	477.875	472.640
19.5	633.327	622.291	594.930	557.355	517.274	500.460	483.722	474.362	468.698
20.0	634.198	622.038	594.799	555.281	514.932	497.337	482.160	470.849	465.185
20.5	634.450	622.527	593.459	553.597	512.552	494.176	478.609	467.298	461.244
21.0	634.663	622.235	592.938	551.285	509.039	491.053	475.096	463.785	457.731
21.5	635.305	622.410	591.988	550.106	506.659	489.454	471.974	459.881	453.827
22.0	636.138	622.271	591.077	548.575	503.536	485.551	468.422	456.369	449.886
22.5	636.619	622.133	590.127	546.577	500.375	482.742	464.871	452.856	446.373
23.0	636.281	622.346	589.216	544.541	497.605	478.839	461.358	448.952	442.431
23.5	636.372	621.931	588.657	541.724	494.092	477.277	457.807	445.049	438.528
24.0	636.814	621.869	587.355	540.231	491.750	474.116	454.256	441.498	434.235
24.5	637.066	621.730	586.443	537.958	488.198	470.603	450.743	437.633	430.722
25.0	636.537	621.630	584.751	536.312	487.027	467.014	447.192	433.691	426.780
25.5	635.617	620.749	583.840	534.314	484.257	463.501	443.679	429.788	422.486
26.0	635.869	620.533	582.538	531.145	481.525	459.950	439.737	426.275	418.935
26.5	635.378	619.537	581.275	528.719	477.973	456.437	436.186	422.372	414.603

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CANDELA TABULATION - (Cont.)

27.0	634.497	618.932	580.440	526.721	474.422	452.848	432.283	418.468	410.700
27.5	634.473	618.717	578.082	524.723	471.261	449.335	428.732	414.527	406.759
28.0	634.724	617.721	576.543	521.125	467.748	445.393	425.180	410.624	402.465
28.5	633.690	616.725	575.356	519.480	464.626	441.880	421.277	406.720	398.523
29.0	632.847	616.510	574.168	516.311	460.723	438.329	417.374	402.427	394.620
29.5	632.670	614.733	572.668	513.065	457.171	434.426	413.432	398.523	390.522
30.0	632.370	613.661	571.090	511.029	453.620	430.446	409.919	394.582	386.464
30.5	631.374	612.779	569.513	508.251	450.107	426.933	405.978	390.640	382.560
31.0	631.236	612.174	567.974	505.396	446.594	422.991	402.075	386.697	378.501
31.5	630.393	611.492	565.616	504.140	443.043	419.088	398.171	382.833	374.482
32.0	629.083	610.496	564.467	500.895	439.140	415.537	394.230	378.812	370.617
32.5	629.334	609.110	562.461	499.249	435.589	411.595	390.288	374.909	366.520
33.0	627.206	608.542	560.807	496.470	432.076	407.692	386.345	370.811	362.421
33.5	627.572	606.727	558.763	493.263	428.134	403.751	382.442	366.869	358.479
34.0	627.043	605.379	556.328	490.446	424.231	399.847	378.500	363.004	354.381
34.5	625.810	603.993	553.894	487.201	420.289	396.296	374.558	358.984	350.400
35.0	624.347	602.607	552.278	483.994	416.386	392.276	370.694	355.042	346.536
35.5	623.427	601.649	550.586	481.177	412.873	388.334	366.830	351.060	342.476
36.0	621.957	599.482	548.228	477.970	408.970	384.392	362.887	347.157	338.418
36.5	621.114	598.096	546.574	474.763	404.676	380.450	358.790	343.332	334.397
37.0	619.766	597.139	543.711	471.518	400.735	376.625	354.964	339.312	330.338
37.5	618.571	595.010	541.238	468.311	396.831	372.567	351.061	335.253	326.513
38.0	618.080	593.233	539.661	465.103	392.928	368.624	347.080	331.428	322.377
38.5	615.637	591.885	536.446	461.896	388.948	364.604	343.176	327.447	318.278
39.0	614.442	590.928	534.364	458.299	384.888	360.740	339.195	323.544	314.297
39.5	612.742	588.761	534.661	455.053	380.946	356.798	335.370	319.562	310.355
40.0	612.289	587.413	532.265	451.846	376.886	352.739	331.506	315.660	306.529
40.5	609.923	585.988	529.869	448.249	372.828	348.797	327.486	311.756	302.587
41.0	608.147	583.936	527.396	445.004	368.885	344.855	323.583	307.814	298.568
41.5	606.171	582.159	525.000	441.483	364.748	340.757	319.601	303.989	294.703
42.0	605.680	580.735	522.137	438.314	360.728	337.009	315.699	300.009	290.840
42.5	604.056	578.997	519.702	435.145	356.668	333.029	311.757	296.027	287.014
43.0	602.042	576.049	517.191	432.052	352.610	329.008	307.853	292.280	282.956
43.5	601.085	574.663	514.795	428.531	348.355	324.988	303.833	288.260	279.169
44.0	599.033	572.886	512.008	425.010	344.374	321.046	299.813	284.318	275.461
44.5	597.409	571.148	509.107	421.451	340.236	317.143	295.871	280.455	271.597
45.0	596.214	569.762	506.711	418.244	336.177	313.007	291.968	276.473	267.811
45.5	593.657	567.243	503.886	414.725	332.118	309.024	287.908	272.648	263.831
46.0	593.480	565.504	501.061	411.244	327.981	305.004	284.005	268.784	260.006
46.5	591.113	564.509	498.627	407.724	323.881	301.023	279.985	264.842	256.336
47.0	590.232	563.903	495.802	404.127	319.628	297.042	276.042	261.055	252.629
47.5	588.922	562.279	492.939	400.723	315.412	292.983	272.101	257.153	248.687
48.0	587.337	559.998	490.229	397.319	311.236	288.807	268.236	253.445	244.862
48.5	584.780	557.946	487.289	393.876	307.137	284.748	264.216	249.581	241.075
49.0	583.194	555.779	484.503	390.316	303.039	280.727	260.274	245.834	237.211
49.5	581.647	553.612	481.640	386.757	298.902	276.785	256.410	242.049	233.542
50.0	581.861	551.912	478.776	383.276	294.725	272.765	252.546	238.263	229.678
50.5	579.066	549.745	475.990	379.679	290.588	268.628	248.565	234.671	225.931
51.0	578.537	547.654	473.203	376.199	286.490	264.646	244.701	230.846	222.146
51.5	576.599	545.526	469.950	372.600	282.391	260.548	240.758	227.060	218.477
52.0	574.662	542.968	467.049	368.848	278.215	256.606	236.972	223.353	214.886
52.5	573.000	540.840	464.262	365.328	274.116	252.625	233.109	219.645	211.139
53.0	570.948	538.635	461.047	361.653	269.979	248.566	229.205	215.937	207.353
53.5	568.895	536.544	458.145	358.017	265.958	244.467	225.302	212.268	203.567
54.0	566.996	534.339	455.126	354.302	261.783	240.525	221.438	208.481	200.210
54.5	564.944	531.935	451.988	350.549	257.762	236.622	217.613	204.852	196.503

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CANDELA TABULATION - (Cont.)

55.0	562.968	529.730	449.008	346.913	253.664	232.563	213.749	201.105	192.755
55.5	560.954	527.172	446.066	343.120	249.604	228.465	209.925	197.397	189.164
56.0	558.979	525.044	443.007	339.446	245.467	224.522	206.138	193.845	185.379
56.5	557.079	522.487	439.831	335.614	241.368	220.503	202.196	190.020	181.905
57.0	555.065	520.396	436.696	331.822	237.231	216.560	198.526	186.507	178.469
57.5	552.661	517.877	433.674	328.030	233.171	212.463	194.780	182.721	174.684
58.0	550.532	515.282	430.577	324.120	228.956	208.481	190.916	179.169	171.054
58.5	548.633	512.763	427.403	320.328	224.818	204.538	187.208	175.539	167.385
59.0	546.619	510.320	424.111	316.418	220.603	200.558	183.500	171.870	163.911
59.5	544.253	507.686	421.050	312.510	216.348	196.537	179.830	168.318	160.359
60.0	541.696	505.129	417.759	308.718	212.172	192.479	176.161	164.727	156.768
60.5	539.368	502.610	414.700	304.926	208.034	188.497	172.415	161.175	153.177
61.0	537.354	500.051	411.525	301.211	203.936	184.477	168.668	157.584	149.625
61.5	534.911	497.494	408.350	297.381	199.759	180.574	164.921	153.993	146.034
62.0	532.078	494.781	405.018	293.471	195.660	176.554	161.330	150.403	142.599
62.5	529.674	492.105	401.880	289.640	191.445	172.612	157.583	146.773	138.969
63.0	527.270	489.546	398.746	285.809	187.385	168.552	153.836	143.221	135.495
63.5	524.866	486.716	395.570	281.978	183.248	164.532	150.166	139.707	131.904
64.0	522.500	483.963	392.239	278.147	179.110	160.707	146.458	136.077	128.548
64.5	519.705	481.250	389.103	274.316	175.013	156.725	142.672	132.525	125.307
65.0	517.028	478.537	385.656	270.329	170.875	152.822	138.886	129.012	121.677
65.5	514.314	475.667	382.480	266.381	166.699	148.841	135.256	125.460	118.242
66.0	511.675	472.719	379.265	262.551	162.638	144.860	131.470	121.986	114.885
66.5	509.192	469.889	375.857	258.681	158.580	140.879	127.840	118.395	111.529
67.0	506.397	467.058	372.681	254.811	154.519	136.976	124.287	114.960	108.289
67.5	503.681	464.227	369.272	250.824	150.459	133.150	120.657	111.486	104.893
68.0	501.004	461.281	365.942	246.877	146.205	129.364	116.989	108.051	101.419
68.5	498.170	458.332	362.650	242.968	142.107	125.383	113.320	104.617	97.984
69.0	495.689	455.425	359.202	239.138	138.087	121.597	109.690	101.182	94.823
69.5	492.895	452.594	355.987	235.346	134.066	117.693	106.254	97.825	91.544
70.0	490.255	449.645	352.540	231.554	130.007	113.907	102.703	94.468	88.264
70.5	487.538	446.659	349.209	227.724	125.987	110.044	99.190	91.033	84.869
71.0	484.899	443.711	345.839	223.778	121.927	106.297	95.677	87.793	81.590
71.5	482.220	440.762	342.315	219.987	118.102	102.549	92.243	84.554	78.351
72.0	479.313	437.622	339.023	216.312	114.120	98.802	88.807	81.314	75.383
72.5	476.555	434.751	335.653	212.560	109.866	95.094	85.412	78.191	72.066
73.0	473.686	431.726	332.361	208.925	106.040	91.464	82.094	74.913	68.943
73.5	470.890	428.623	329.032	205.172	102.098	87.951	78.737	71.712	65.742
74.0	468.134	425.637	325.585	201.421	98.233	84.399	75.419	68.666	62.698
74.5	465.147	422.497	322.254	197.709	94.486	80.886	72.179	65.583	59.849
75.0	462.314	419.511	318.770	194.111	90.700	77.373	68.979	62.539	56.765
75.5	459.404	416.408	315.441	190.361	86.991	73.938	65.777	59.416	53.837
76.0	456.455	413.422	312.267	186.688	83.283	70.582	62.538	56.489	50.988
76.5	453.503	410.281	308.860	183.207	79.575	67.264	59.338	53.444	48.178
77.0	450.515	407.335	305.531	179.495	75.983	63.946	56.370	50.595	45.562
77.5	447.527	404.234	302.203	176.054	72.314	60.667	53.288	47.707	42.830
78.0	444.618	401.249	298.990	172.537	68.879	57.388	50.282	44.935	40.176
78.5	441.474	398.149	295.816	169.213	65.405	54.188	47.316	42.202	37.521
79.0	438.526	394.971	292.566	165.697	62.047	51.104	44.388	39.470	34.828
79.5	435.538	391.986	289.392	162.296	58.652	48.060	41.538	36.738	32.369
80.0	432.475	388.963	286.182	158.936	55.294	45.092	38.767	34.161	29.871
80.5	429.410	385.903	282.970	155.769	52.054	42.126	36.034	31.585	27.451
81.0	426.540	382.958	279.992	152.602	48.931	39.237	33.380	29.087	24.953
81.5	423.592	379.780	276.899	149.436	45.886	36.465	30.764	26.628	22.533
82.0	420.605	376.835	273.921	146.271	42.881	33.733	28.150	24.208	20.270
82.5	417.927	374.164	270.984	143.221	39.875	31.118	25.729	21.982	18.121

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CANDELA TABULATION - (Cont.)

83.0	415.021	371.297	267.969	140.366	36.987	28.463	23.309	19.718	15.897
83.5	412.269	368.391	265.032	137.550	34.215	25.886	21.006	17.494	13.750
84.0	409.594	365.642	262.251	134.737	31.522	23.427	18.742	15.347	11.642
84.5	406.841	362.815	259.431	131.922	28.868	21.046	16.439	13.200	9.691
85.0	404.244	359.950	256.651	129.264	26.292	18.743	14.253	11.209	7.934
85.5	401.685	357.317	253.753	126.606	23.755	16.441	12.145	9.297	6.372
86.0	399.128	354.799	250.973	124.065	21.296	14.216	10.115	7.579	5.241
86.5	396.762	352.510	248.464	121.524	18.915	12.068	8.163	6.251	4.459
87.0	394.586	350.912	245.991	119.177	16.651	9.960	6.446	5.197	3.952
87.5	393.022	349.697	244.133	116.753	14.387	7.930	5.235	4.533	3.639
88.0	392.264	349.133	242.809	114.367	12.084	5.939	4.376	4.065	3.481
88.5	391.694	348.721	241.981	112.286	9.781	4.300	3.907	3.713	3.286
89.0	391.356	348.617	241.769	110.857	7.438	3.519	3.634	3.596	3.247
89.5	391.288	348.552	241.595	110.383	5.446	3.245	3.517	3.478	3.208
90.0	391.333	348.525	241.615	110.411	4.658	3.167	3.477	3.478	3.246
90.5	391.032	348.616	241.638	110.632	5.533	3.166	3.476	3.477	3.206
91.0	391.195	348.902	241.930	111.672	7.444	3.204	3.437	3.515	3.206
91.5	391.281	349.421	242.573	113.492	9.738	3.815	3.475	3.476	3.167
92.0	391.757	350.251	244.034	115.665	11.955	4.923	3.590	3.437	3.243
92.5	392.271	351.663	246.040	117.837	14.095	6.720	3.895	3.552	3.320
93.0	393.331	353.430	248.435	120.357	16.235	8.822	4.660	3.705	3.587
93.5	394.703	355.661	250.986	122.606	18.452	10.925	5.959	4.124	4.199
94.0	396.737	358.204	253.612	125.163	20.784	13.066	7.718	4.965	5.384
94.5	399.199	360.787	256.082	127.681	23.155	15.130	9.744	6.304	7.028
95.0	401.778	363.561	258.979	130.198	25.601	17.385	11.808	7.909	8.862
95.5	404.356	366.374	261.758	132.831	28.124	19.680	13.948	9.859	10.966
96.0	407.051	368.992	264.498	135.540	30.724	21.973	16.243	11.962	13.030
96.5	409.668	371.688	267.316	138.365	33.399	24.381	18.499	14.064	15.247
97.0	412.324	374.424	270.133	141.227	36.152	26.790	20.831	16.281	17.503
97.5	415.056	377.233	272.989	144.089	39.020	29.351	23.201	18.614	19.720
98.0	417.709	380.044	275.847	147.141	41.848	31.950	25.571	20.870	21.975
98.5	420.517	382.931	278.857	150.233	44.869	34.627	28.055	23.239	24.423
99.0	423.286	385.857	281.866	153.285	48.004	37.494	30.617	25.647	26.869
99.5	426.056	388.705	284.913	156.492	51.138	40.323	33.254	28.171	29.431
100.0	428.824	391.630	288.038	159.735	54.349	43.305	35.892	30.695	31.877
100.5	431.593	394.592	291.122	162.978	57.637	46.287	38.645	33.218	34.477
101.0	434.516	397.479	294.285	166.337	61.002	49.268	41.513	35.817	37.038
101.5	437.208	400.362	297.407	169.657	64.403	52.480	44.342	38.455	39.752
102.0	440.129	403.366	300.683	173.054	67.882	55.461	47.285	41.169	42.544
102.5	442.935	406.251	303.843	176.412	71.361	58.826	50.229	43.960	45.297
103.0	445.821	409.213	307.041	179.809	74.994	62.802	53.249	46.751	48.126
103.5	448.703	412.137	310.278	183.281	78.664	66.089	56.307	49.618	50.916
104.0	451.589	415.060	313.553	186.831	82.257	68.879	59.366	52.524	53.898
104.5	454.393	418.138	316.788	190.303	85.927	72.397	62.577	55.505	56.880
105.0	457.354	421.023	319.987	193.776	89.750	75.761	65.751	58.526	59.900
105.5	459.891	423.985	323.299	197.325	93.536	79.317	68.961	61.546	62.920
106.0	462.812	426.947	326.497	200.913	97.358	83.293	72.250	64.605	66.018
106.5	465.542	429.793	329.694	204.539	101.296	87.421	75.576	67.702	69.075
107.0	468.386	432.717	332.930	208.049	105.157	90.441	78.864	70.874	72.402
107.5	471.231	435.678	336.128	211.676	109.095	93.691	82.304	74.009	75.499
108.0	473.960	438.562	339.442	215.377	113.033	97.361	85.668	77.374	78.748
108.5	476.650	441.447	342.716	219.080	117.048	101.108	89.071	80.585	81.960
109.0	479.533	444.217	345.952	222.744	121.023	104.816	92.588	83.950	85.248
109.5	482.185	447.296	349.188	226.369	124.999	108.563	96.068	87.199	88.497
110.0	484.953	449.988	352.348	230.148	129.052	112.348	99.508	90.563	91.901
110.5	487.644	452.874	355.392	233.850	133.104	116.132	103.064	93.928	95.227

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CANDELA TABULATION - (Cont.)

111.0	490.373	455.567	358.588	237.553	137.194	119.956	106.619	97.331	98.629
111.5	493.027	458.375	361.826	241.332	141.285	123.779	110.136	100.771	101.879
112.0	495.565	461.185	364.984	245.072	145.376	127.640	113.768	104.212	105.165
112.5	498.294	463.956	368.220	248.888	149.582	131.578	117.438	107.615	108.530
113.0	500.753	466.726	371.419	252.628	153.634	135.516	121.031	111.017	111.971
113.5	503.445	469.459	374.576	256.522	157.724	139.492	124.740	114.534	115.488
114.0	506.020	472.074	377.735	260.262	161.930	143.392	128.525	118.013	118.929
114.5	508.557	474.767	380.894	264.040	165.982	147.406	133.035	121.607	122.369
115.0	510.941	477.501	384.054	267.858	170.112	151.382	137.852	125.163	125.887
115.5	513.365	480.194	387.174	271.636	174.279	155.435	141.293	128.642	129.290
116.0	515.978	482.695	390.373	275.414	178.446	159.411	143.664	132.197	132.998
116.5	518.326	485.390	393.377	279.193	182.536	163.386	146.952	135.752	136.477
117.0	520.939	488.085	396.613	283.010	186.704	167.515	151.311	139.384	140.110
117.5	523.248	490.547	399.656	286.750	190.947	171.454	156.204	142.863	143.549
118.0	525.556	493.201	402.738	290.567	195.000	175.582	160.103	146.534	147.144
118.5	527.748	495.666	405.974	294.307	199.205	179.636	162.780	150.012	150.699
119.0	530.096	498.053	408.981	298.124	203.373	183.611	165.762	153.759	154.370
119.5	532.443	500.822	412.062	301.864	207.540	187.549	169.432	157.353	157.810
120.0	534.674	503.326	415.106	305.566	211.784	191.563	173.179	161.023	161.633
120.5	536.944	505.752	418.150	309.191	215.913	195.654	176.964	164.655	165.151
121.0	539.213	508.138	421.233	312.969	219.927	199.630	180.710	168.363	168.745
121.5	541.522	510.642	424.200	316.632	224.132	203.568	184.456	172.760	172.339
122.0	543.409	513.068	427.245	320.411	228.299	207.545	188.357	177.769	176.009
122.5	545.757	515.034	430.173	324.075	232.390	211.482	192.103	182.050	179.717
123.0	548.066	517.537	433.179	327.738	236.519	215.535	195.927	184.879	183.387
123.5	550.374	519.885	436.225	331.363	240.686	219.473	199.750	188.282	187.172
124.0	552.301	521.968	439.268	334.988	244.739	223.487	203.612	192.717	192.257
124.5	554.610	524.354	442.195	338.690	248.906	227.540	207.435	196.464	198.871
125.0	556.614	526.819	445.241	342.353	252.959	231.401	211.334	198.987	203.114
125.5	558.501	528.863	448.246	346.017	257.126	235.415	215.158	201.664	205.103
126.0	560.771	531.289	451.061	349.527	261.178	239.391	219.019	205.218	205.791
126.5	562.658	533.410	454.064	353.114	265.230	243.292	222.804	208.889	209.002
127.0	564.663	535.836	457.263	356.702	269.360	247.344	226.627	212.598	212.672
127.5	566.628	537.879	460.001	360.174	273.451	251.281	230.489	216.268	216.381
128.0	568.516	539.962	462.661	363.799	277.465	255.334	234.389	219.976	220.166
128.5	570.481	542.388	465.820	367.386	281.632	259.387	238.096	223.724	223.874
129.0	572.447	544.470	468.558	370.896	285.761	263.325	242.111	227.546	227.659
129.5	572.422	546.514	471.296	374.445	289.852	267.300	246.049	231.255	231.444
130.0	574.427	548.557	474.455	377.994	293.904	271.276	249.948	234.963	235.229
130.5	575.628	550.601	477.154	381.581	297.957	275.329	253.848	238.671	239.052
131.0	577.515	552.223	479.893	385.053	302.086	279.305	257.632	242.419	242.799
131.5	577.990	554.001	482.631	388.564	306.253	283.243	261.494	246.242	246.584
132.0	580.986	555.662	485.369	392.036	310.344	287.181	265.470	250.026	250.483
132.5	582.990	557.285	488.107	395.509	314.511	291.195	269.331	253.811	254.267
133.0	583.848	558.681	490.845	398.905	318.640	295.133	273.345	257.520	258.054
133.5	585.735	559.960	493.583	402.414	322.655	299.148	277.207	261.802	261.838
134.0	588.465	562.424	496.282	405.964	326.707	303.162	281.183	265.548	265.739
134.5	589.284	564.086	498.638	409.436	330.798	307.061	285.121	269.372	269.484
135.0	591.210	566.550	501.376	412.986	334.888	311.152	288.981	273.233	273.500
135.5	593.597	567.790	504.114	416.075	338.980	315.166	292.959	277.133	277.207
136.0	594.376	569.491	506.735	419.625	343.032	319.181	296.820	280.841	281.108
136.5	597.067	571.191	509.169	423.057	347.046	323.041	300.719	284.703	284.814
137.0	597.121	573.195	511.485	426.568	351.138	327.094	304.657	288.488	288.869
137.5	599.352	575.278	514.262	429.735	355.114	331.148	308.442	292.271	292.692
138.0	600.170	576.557	515.736	433.129	359.126	335.045	312.300	296.055	296.279
138.5	602.518	579.021	517.749	436.257	362.988	338.983	316.240	300.071	300.373

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CANDELA TABULATION - (Cont.)

139.0	603.836	579.957	520.487	439.729	366.964	342.806	320.101	303.856	304.273
139.5	604.920	581.579	522.421	442.779	370.979	346.821	323.963	307.718	308.135
140.0	606.121	583.319	524.816	445.869	374.917	350.644	327.709	311.502	311.959
140.5	608.125	585.058	526.025	449.301	378.894	354.620	331.686	315.479	316.088
141.0	609.287	586.719	527.999	452.351	382.947	358.482	335.624	319.531	320.141
141.5	610.870	587.311	530.737	455.784	386.961	362.382	339.485	323.507	324.078
142.0	611.767	589.433	532.671	458.873	390.784	366.281	343.345	327.483	328.054
142.5	612.968	591.094	535.066	461.924	394.607	370.104	347.168	331.268	332.030
143.0	614.855	592.334	537.000	465.052	398.430	374.004	350.991	335.091	335.968
143.5	616.477	593.270	538.974	468.181	402.635	377.979	354.967	339.143	339.944
144.0	615.767	594.627	541.329	471.309	406.497	381.879	358.789	343.118	343.919
144.5	617.849	596.366	543.303	474.398	410.359	385.549	362.689	347.056	347.895
145.0	619.775	597.684	544.894	477.183	414.182	389.372	366.512	350.879	352.025
145.5	619.868	599.002	547.632	480.312	418.005	393.234	370.334	354.816	355.848
146.0	621.030	599.859	549.184	483.097	421.484	397.057	374.081	358.639	359.785
146.5	623.152	601.599	551.197	485.078	425.307	400.880	377.866	362.538	363.723
147.0	624.009	602.456	553.131	487.825	429.130	404.703	381.803	366.398	367.698
147.5	625.632	604.235	554.761	489.845	432.610	408.604	385.588	370.298	371.521
148.0	625.647	604.406	556.735	492.209	436.433	412.387	389.411	374.197	375.535
148.5	625.779	605.341	557.944	495.337	439.913	415.828	393.273	378.096	379.435
149.0	626.940	607.081	559.917	498.083	443.775	419.308	397.057	381.919	383.410
149.5	627.533	606.487	561.126	500.104	447.215	423.170	400.880	385.627	387.234
150.0	627.891	608.148	563.100	503.271	450.656	426.993	404.703	389.450	391.439
150.5	629.131	609.084	565.494	505.674	454.097	430.472	408.526	393.655	395.262
151.0	629.185	610.020	565.978	508.459	457.576	433.913	412.005	397.439	399.429
151.5	630.464	610.230	568.334	510.823	461.056	437.736	415.828	401.301	403.290
152.0	630.557	610.822	569.199	513.608	464.536	441.216	419.651	405.085	407.457
152.5	630.228	611.758	570.829	515.629	467.976	444.656	423.513	408.908	411.319
153.0	630.321	611.929	572.460	518.414	471.074	448.136	426.915	412.348	415.142
153.5	631.561	612.903	573.668	520.817	473.024	451.577	430.777	416.554	418.965
154.0	630.890	613.496	574.534	523.602	476.847	455.439	434.217	420.338	423.209
154.5	631.747	613.706	575.322	525.622	479.523	458.497	438.040	424.161	427.071
155.0	632.566	614.259	576.874	527.643	481.856	462.016	441.520	427.601	430.855
155.5	632.316	614.126	577.966	530.085	484.571	465.417	445.343	431.424	434.717
156.0	631.223	614.719	578.675	532.066	488.012	468.936	448.823	435.247	438.501
156.5	632.080	615.350	579.463	534.508	490.727	470.847	452.263	439.031	441.941
157.0	632.477	615.139	580.632	536.568	493.824	474.327	455.704	442.472	445.803
157.5	630.721	615.388	581.420	538.167	496.500	477.386	459.566	446.295	449.626
158.0	630.837	614.490	582.325	540.187	499.215	480.444	463.006	450.118	453.449
158.5	629.814	614.739	582.847	541.865	502.274	482.777	466.065	453.558	456.890
159.0	628.760	614.988	583.752	543.885	504.989	485.835	468.359	456.999	460.713
159.5	629.774	615.198	584.274	545.945	507.283	489.276	472.985	460.822	464.153
160.0	628.525	614.987	584.835	547.583	510.380	491.991	474.897	464.262	467.976
160.5	627.627	614.737	585.779	548.878	512.713	495.088	478.376	467.703	471.456
161.0	627.946	614.791	586.340	550.555	514.624	497.764	481.052	470.379	475.240
161.5	627.205	613.394	587.245	552.193	517.683	500.823	483.385	473.820	478.298
162.0	626.697	612.800	586.316	553.871	519.594	503.538	486.826	477.260	479.749
162.5	625.261	611.863	587.642	554.401	522.691	506.635	489.502	479.936	483.112
163.0	624.855	612.495	587.478	556.461	524.642	509.693	493.364	482.613	486.053
163.5	624.144	611.254	587.696	557.334	527.318	512.026	496.040	486.053	489.455
164.0	624.354	611.238	588.258	558.629	529.229	514.320	498.716	489.112	492.474
164.5	623.113	610.036	588.093	559.503	531.562	516.996	502.196	492.591	496.601
165.0	621.911	609.981	588.312	560.798	533.856	520.054	505.254	495.267	499.660
165.5	619.944	608.014	588.186	562.054	536.189	522.005	507.548	497.943	502.336
166.0	619.928	607.272	587.983	563.349	538.100	524.299	510.263	501.384	506.081
166.5	619.070	606.492	588.240	564.644	539.629	527.014	513.282	504.442	509.521

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CANDELA TABULATION - (Cont.)

167.0	618.133	605.711	587.733	564.449	541.580	528.925	516.380	507.157	512.580
167.5	616.471	604.244	587.608	565.400	543.148	531.219	518.291	510.637	515.256
168.0	613.817	603.120	587.483	566.352	545.060	533.552	521.388	513.695	518.353
168.5	613.419	602.222	587.358	567.343	546.971	535.846	524.486	516.793	521.372
169.0	611.109	600.903	586.468	566.765	548.922	538.139	526.358	519.087	524.009
169.5	609.946	599.475	586.343	568.060	550.029	539.668	529.417	522.527	526.264
170.0	608.783	598.008	585.835	568.287	551.176	542.001	531.749	524.821	529.322
170.5	607.659	597.344	584.602	568.895	552.362	543.913	533.700	527.536	532.038
171.0	605.311	595.955	584.899	569.160	553.127	545.824	535.650	530.212	534.370
171.5	603.461	594.566	583.244	569.425	555.077	547.010	537.983	532.966	537.429
172.0	602.454	592.834	583.197	570.034	556.646	548.922	540.277	534.495	539.644
172.5	600.644	591.140	581.964	569.917	557.753	550.833	542.571	537.554	542.664
173.0	598.108	589.751	580.809	569.839	558.557	552.745	544.864	539.848	544.154
173.5	596.758	588.019	580.458	570.525	559.283	553.509	546.776	541.759	546.869
174.0	595.330	586.669	578.921	570.447	559.665	555.421	548.305	544.092	549.506
174.5	593.098	584.211	577.844	570.369	560.851	557.332	550.178	546.386	550.653
175.0	590.866	582.518	576.767	569.565	561.998	558.479	551.707	548.258	552.908
175.5	588.673	580.902	575.729	570.330	562.723	559.205	553.657	550.209	554.437
176.0	588.088	579.326	574.730	570.291	563.527	560.773	555.530	552.159	557.534
176.5	584.904	577.063	573.771	569.948	563.870	561.537	557.862	554.110	558.720
177.0	583.250	575.643	572.124	569.948	563.948	562.684	558.245	555.982	560.632
177.5	580.792	573.497	571.664	569.183	564.674	563.066	560.156	557.511	561.739
178.0	578.490	572.194	570.860	569.183	565.056	564.213	561.264	559.844	564.837
178.5	576.040	569.823	569.714	568.801	565.056	565.360	562.411	561.334	566.709
179.0	574.394	569.019	568.184	568.801	565.438	565.743	564.361	562.863	567.474
179.5	572.826	567.529	567.420	568.036	565.438	566.507	565.126	564.049	570.571
180.0	566.881	566.881	566.881	566.881	566.881	566.881	566.881	566.881	566.881

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-835U-L19-835D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	210.47	N.A.	5.50
0-30	447.09	N.A.	11.70
0-40	733.39	N.A.	19.20
0-60	1328.33	N.A.	34.70
0-80	1779.03	N.A.	46.50
0-90	1920.6	N.A.	50.20
10-90	1866.23	N.A.	48.80
20-40	522.92	N.A.	13.70
20-50	826.49	N.A.	21.60
40-70	848.25	N.A.	22.20
60-80	450.70	N.A.	11.80
70-80	197.39	N.A.	5.20
80-90	141.57	N.A.	3.70
90-110	337.69	N.A.	8.80
90-120	589.21	N.A.	15.40
90-130	878.53	N.A.	23.00
90-150	1463.5	N.A.	38.20
90-180	1905.62	N.A.	49.80
110-180	1567.93	N.A.	41.00
0-180	3826.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.37
10-20	156.10
20-30	236.62
30-40	286.30
40-50	303.57
50-60	291.38
60-70	253.31
70-80	197.39
80-90	141.57
90-100	141.37
100-110	196.32
110-120	251.53
120-130	289.32
130-140	301.25
140-150	283.72
150-160	234.10
160-170	154.26
170-180	53.76

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-835U-L19-835D-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-L19-835U-L19-835D-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	19.4	20.3	20.4	21.3	22.6	13.5	14.4	14.4	15.4	16.6
	3H	22.5	23.3	23.5	24.3	25.6	14.8	15.7	15.8	16.6	17.9
	4H	24.1	24.9	25.1	25.9	27.1	15.3	16.0	16.2	17.0	18.3
	6H	25.8	26.5	26.7	27.5	28.8	15.5	16.2	16.5	17.2	18.5
	8H	26.6	27.3	27.6	28.4	29.7	15.6	16.2	16.5	17.3	18.6
	12H	27.6	28.3	28.6	29.3	30.6	15.6	16.2	16.6	17.2	18.6

UGR Viewed Endwise

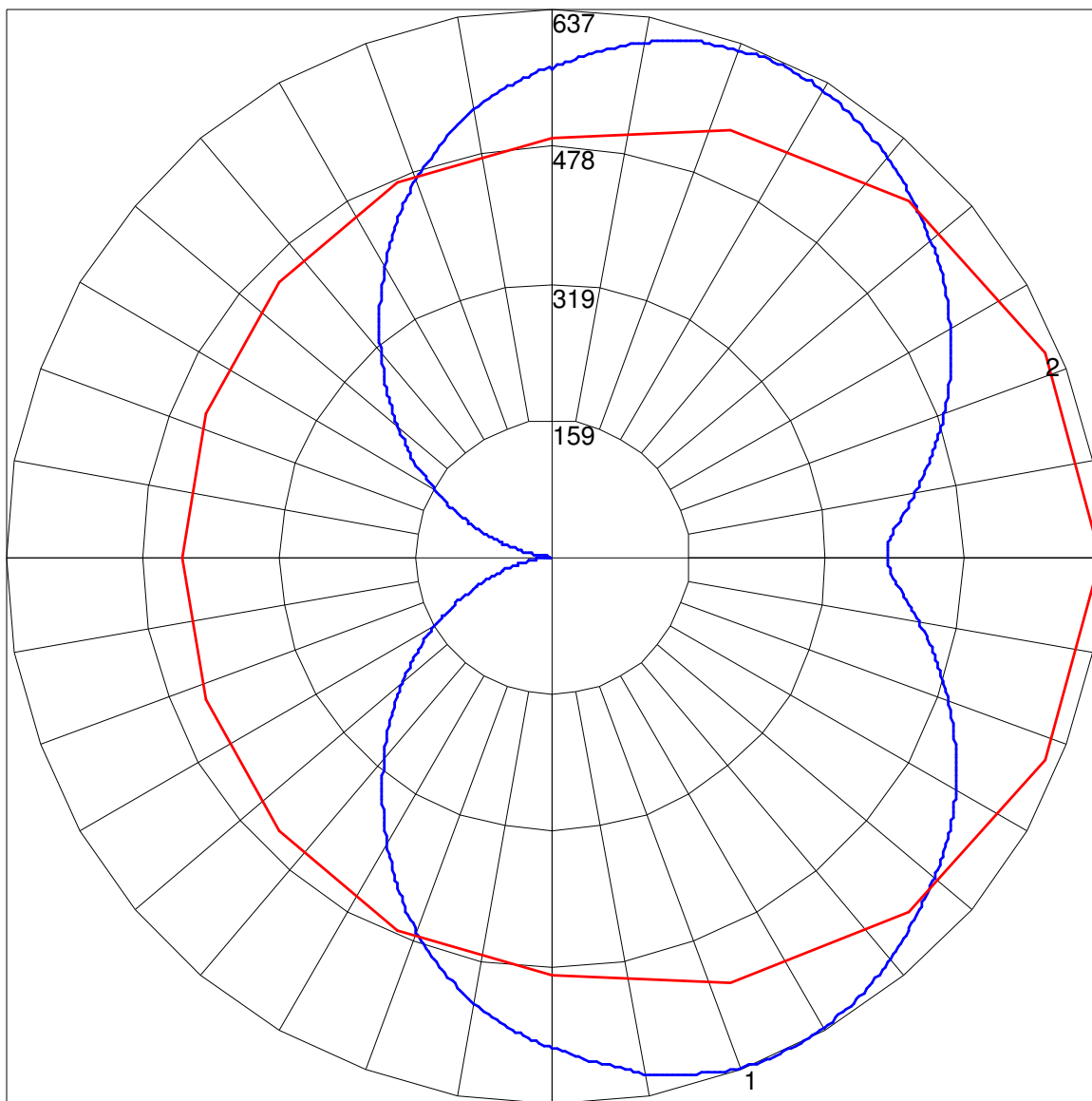
4H	2H	19.7	20.5	20.7	21.5	22.8	14.7	15.5	15.7	16.5	17.8
	3H	23.0	23.7	24.0	24.7	26.0	16.4	17.0	17.3	18.0	19.3
	4H	24.8	25.4	25.8	26.4	27.7	16.9	17.5	17.9	18.5	19.9
	6H	26.7	27.2	27.7	28.2	29.5	17.3	17.8	18.3	18.9	20.2
	8H	27.6	28.1	28.7	29.2	30.5	17.4	17.9	18.4	18.9	20.3
	12H	28.7	29.2	29.8	30.2	31.6	17.4	17.9	18.5	18.9	20.3

8H	4H	24.9	25.4	25.9	26.4	27.8	18.0	18.5	19.0	19.5	20.9
	6H	27.0	27.4	28.0	28.4	29.8	18.7	19.1	19.7	20.1	21.5
	8H	28.1	28.5	29.1	29.5	30.9	18.9	19.3	19.9	20.3	21.7
	12H	29.4	29.7	30.4	30.8	32.2	19.0	19.3	20.0	20.4	21.8

12H	4H	24.9	25.3	25.9	26.4	27.7	18.4	18.8	19.4	19.9	21.2
	6H	27.0	27.3	28.0	28.4	29.8	19.2	19.6	20.2	20.6	22.0
	8H	28.2	28.5	29.2	29.5	30.9	19.5	19.8	20.5	20.9	22.3

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 637.066 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.)