

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-935U-L19-935D-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-L19-935U-L19-935D-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	3176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	8743	8235	7851
55	8692	7870	7170
65	8707	7585	6360
75	8858	7397	5173
85	9311	7542	3427

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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	475.278	475.278	475.278	475.278	475.278	475.278	475.278	475.278	475.278
0.5	475.946	476.739	475.856	477.666	474.426	476.891	473.690	473.665	473.710
1.0	477.242	477.870	477.603	478.053	474.134	476.180	472.331	472.305	472.382
1.5	478.957	479.388	478.117	479.089	474.134	474.852	471.619	470.654	470.114
2.0	480.411	481.261	479.279	479.184	473.778	473.849	470.323	469.326	468.787
2.5	482.514	482.551	480.829	479.603	473.454	473.201	469.027	468.354	467.523
3.0	483.905	484.488	482.055	479.698	473.130	472.553	468.055	466.410	465.871
3.5	485.747	486.196	482.957	480.797	473.130	471.225	466.436	465.083	464.899
4.0	488.173	487.905	484.506	480.892	472.451	469.929	465.788	463.463	462.631
4.5	489.272	489.321	485.732	480.695	472.127	469.605	464.168	461.843	460.656
5.0	489.882	491.093	486.792	481.763	471.479	467.985	462.224	460.192	458.744
5.5	492.143	492.541	487.142	481.889	470.507	466.365	461.252	458.572	457.772
6.0	493.661	493.696	488.075	481.692	469.827	466.010	459.956	457.244	455.796
6.5	494.887	495.887	489.040	481.527	469.211	464.746	458.273	454.945	453.884
7.0	496.113	497.272	489.682	481.591	468.855	463.710	456.653	452.969	451.585
7.5	497.363	498.427	490.355	481.457	467.204	462.090	454.709	451.349	449.317
8.0	499.770	499.259	491.186	480.612	466.232	460.470	453.089	449.374	447.049
8.5	501.902	500.478	492.018	481.095	465.908	459.499	451.438	447.430	444.813
9.0	504.817	501.761	492.754	480.574	464.288	457.847	449.462	444.806	442.545
9.5	506.258	502.878	493.199	480.732	463.284	455.903	447.518	442.831	441.897
10.0	507.864	504.611	493.611	480.275	462.312	454.575	445.898	440.887	438.333
10.5	509.439	505.633	494.348	479.785	460.693	452.987	443.923	438.587	436.745
11.0	510.398	506.363	494.792	479.004	460.013	451.336	441.623	436.967	434.477
11.5	511.261	507.512	494.912	478.222	458.069	449.392	439.711	434.344	431.562
12.0	511.800	508.337	495.356	478.089	456.773	448.388	437.736	432.076	429.002
12.5	513.667	509.810	495.508	477.307	455.770	445.765	435.468	429.808	426.734
13.0	514.721	510.603	495.724	476.526	454.474	444.145	433.168	427.185	423.558
13.5	515.546	511.657	495.939	476.068	452.206	442.201	431.193	424.561	421.677
14.0	517.114	512.323	496.186	475.318	451.202	439.578	428.277	421.969	418.857
14.5	518.200	513.021	495.722	474.181	449.582	437.958	425.977	419.378	415.973
15.0	518.218	513.364	495.874	473.431	447.283	435.982	423.710	416.786	413.089
15.5	518.891	513.738	495.829	471.970	445.339	434.007	421.086	413.870	411.469
16.0	519.177	514.436	495.460	470.769	443.687	431.739	419.110	411.278	407.549
16.5	520.573	515.134	496.063	470.343	442.067	429.471	416.519	409.011	405.605
17.0	522.103	514.860	496.018	468.882	440.448	426.847	414.219	406.063	403.693
17.5	522.343	515.914	495.617	467.065	438.148	425.196	411.272	404.087	400.422
18.0	523.263	515.640	495.216	466.316	435.880	421.924	408.356	401.172	398.154
18.5	524.508	516.046	494.720	464.918	433.581	419.981	407.028	399.552	395.207
19.0	524.195	516.452	494.612	463.907	431.637	417.357	404.437	396.636	392.291
19.5	525.662	516.502	493.792	462.605	429.337	415.381	401.489	393.720	389.019
20.0	526.385	516.291	493.683	460.883	427.394	412.790	400.193	390.805	386.104
20.5	526.593	516.697	492.571	459.485	425.418	410.166	397.246	387.857	382.832
21.0	526.771	516.455	492.139	457.567	422.502	407.574	394.330	384.941	379.916
21.5	527.303	516.600	491.350	456.588	420.527	406.247	391.738	381.702	376.677
22.0	527.995	516.485	490.594	455.317	417.935	403.007	388.791	378.786	373.405
22.5	528.394	516.370	489.806	453.659	415.311	400.676	385.843	375.870	370.490
23.0	528.113	516.547	489.049	451.969	413.012	397.436	382.927	372.630	367.218
23.5	528.189	516.203	488.585	449.631	410.096	396.140	379.980	369.391	363.978
24.0	528.556	516.151	487.505	448.392	408.152	393.517	377.032	366.443	360.415
24.5	528.765	516.036	486.748	446.505	405.205	390.601	374.117	363.235	357.499
25.0	528.326	515.953	485.344	445.139	404.233	387.622	371.169	359.964	354.227
25.5	527.562	515.221	484.587	443.481	401.933	384.706	368.253	356.724	350.664
26.0	527.771	515.043	483.507	440.850	399.665	381.758	364.982	353.808	347.716
26.5	527.364	514.216	482.458	438.836	396.718	378.843	362.034	350.569	344.121

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CANDELA TABULATION - (Cont.)

27.0	526.632	513.713	481.765	437.178	393.770	375.863	358.795	347.329	340.881
27.5	526.612	513.535	479.808	435.520	391.147	372.948	355.847	344.057	337.610
28.0	526.821	512.708	478.530	432.534	388.231	369.676	352.900	340.818	334.046
28.5	525.963	511.882	477.545	431.168	385.639	366.760	349.660	337.578	330.774
29.0	525.263	511.703	476.560	428.538	382.400	363.813	346.420	334.014	327.535
29.5	525.116	510.228	475.314	425.844	379.452	360.573	343.149	330.774	324.133
30.0	524.867	509.338	474.005	424.154	376.505	357.270	340.233	327.503	320.765
30.5	524.041	508.607	472.696	421.848	373.589	354.354	336.962	324.231	317.525
31.0	523.926	508.104	471.418	419.478	370.673	351.083	333.722	320.959	314.156
31.5	523.226	507.538	469.461	418.436	367.726	347.843	330.482	317.751	310.820
32.0	522.139	506.712	468.507	415.743	364.486	344.896	327.211	314.414	307.612
32.5	522.348	505.561	466.842	414.377	361.539	341.624	323.939	311.174	304.211
33.0	520.581	505.090	465.470	412.070	358.623	338.385	320.667	307.773	300.810
33.5	520.885	503.584	463.773	409.409	355.351	335.113	317.427	304.501	297.538
34.0	520.446	502.465	461.752	407.071	352.112	331.873	314.155	301.294	294.137
34.5	519.422	501.314	459.732	404.377	348.840	328.926	310.883	297.957	290.832
35.0	518.208	500.164	458.391	401.715	345.600	325.589	307.676	294.685	287.625
35.5	517.445	499.369	456.986	399.377	342.685	322.317	304.469	291.380	284.255
36.0	516.224	497.570	455.029	396.715	339.445	319.045	301.196	288.140	280.887
36.5	515.524	496.420	453.657	394.053	335.881	315.774	297.795	284.965	277.550
37.0	514.405	495.625	451.280	391.360	332.610	312.599	294.620	281.629	274.180
37.5	513.414	493.858	449.228	388.698	329.370	309.230	291.381	278.260	271.006
38.0	513.006	492.384	447.919	386.036	326.130	305.958	288.076	275.085	267.573
38.5	510.979	491.265	445.250	383.374	322.826	302.621	284.836	271.781	264.171
39.0	509.987	490.470	443.522	380.388	319.457	299.415	281.532	268.541	260.867
39.5	508.576	488.671	443.769	377.694	316.185	296.142	278.357	265.237	257.594
40.0	508.200	487.553	441.780	375.032	312.816	292.773	275.150	261.998	254.419
40.5	506.236	486.370	439.791	372.047	309.447	289.502	271.813	258.757	251.147
41.0	504.762	484.667	437.739	369.353	306.175	286.230	268.574	255.486	247.812
41.5	503.122	483.192	435.750	366.431	302.741	282.829	265.269	252.311	244.604
42.0	502.714	482.010	433.373	363.800	299.404	279.718	262.030	249.007	241.397
42.5	501.367	480.567	431.353	361.170	296.035	276.414	258.758	245.703	238.221
43.0	499.695	478.121	429.269	358.603	292.666	273.077	255.518	242.592	234.853
43.5	498.900	476.970	427.280	355.681	289.135	269.740	252.181	239.256	231.710
44.0	497.197	475.496	424.967	352.759	285.830	266.469	248.844	235.984	228.633
44.5	495.849	474.053	422.559	349.804	282.396	263.229	245.573	232.777	225.426
45.0	494.857	472.902	420.570	347.143	279.027	259.795	242.333	229.473	222.283
45.5	492.735	470.811	418.225	344.221	275.658	256.490	238.964	226.298	218.980
46.0	492.588	469.369	415.881	341.333	272.224	253.153	235.724	223.091	215.805
46.5	490.624	468.542	413.860	338.411	268.822	249.849	232.387	219.819	212.759
47.0	489.893	468.039	411.516	335.425	265.291	246.545	229.115	216.676	209.682
47.5	488.806	466.692	409.139	332.600	261.792	243.176	225.844	213.437	206.410
48.0	487.490	464.798	406.890	329.775	258.326	239.710	222.636	210.359	203.235
48.5	485.367	463.095	404.450	326.917	254.924	236.340	219.299	207.153	200.093
49.0	484.051	461.296	402.137	323.962	251.523	233.004	216.027	204.042	196.885
49.5	482.767	459.498	399.761	321.008	248.089	229.731	212.820	200.900	193.840
50.0	482.944	458.087	397.384	318.119	244.622	226.395	209.613	197.758	190.633
50.5	480.625	456.288	395.072	315.133	241.188	222.961	206.309	194.777	187.523
51.0	480.186	454.553	392.759	312.245	237.786	219.657	203.102	191.602	184.381
51.5	478.577	452.786	390.058	309.258	234.385	216.255	199.829	188.460	181.336
52.0	476.969	450.664	387.650	306.143	230.918	212.983	196.687	185.383	178.355
52.5	475.590	448.897	385.337	303.222	227.516	209.679	193.480	182.305	175.245
53.0	473.887	447.067	382.669	300.172	224.082	206.310	190.240	179.227	172.103
53.5	472.183	445.332	380.260	297.154	220.745	202.908	187.001	176.182	168.961
54.0	470.607	443.501	377.754	294.071	217.280	199.636	183.793	173.040	166.174
54.5	468.903	441.506	375.150	290.955	213.943	196.396	180.619	170.027	163.098

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CANDELA TABULATION - (Cont.)

55.0	467.264	439.676	372.677	287.938	210.541	193.027	177.412	166.917	159.987
55.5	465.592	437.553	370.234	284.790	207.172	189.626	174.238	163.839	157.006
56.0	463.952	435.786	367.696	281.740	203.737	186.353	171.094	160.891	153.864
56.5	462.376	433.664	365.060	278.560	200.335	183.017	167.823	157.716	150.981
57.0	460.704	431.929	362.457	275.412	196.902	179.744	164.777	154.801	148.129
57.5	458.709	429.838	359.950	272.265	193.532	176.344	161.667	151.659	144.987
58.0	456.942	427.684	357.379	269.020	190.033	173.039	158.460	148.711	141.975
58.5	455.365	425.593	354.745	265.872	186.599	169.767	155.382	145.698	138.929
59.0	453.694	423.566	352.012	262.627	183.100	166.463	152.305	142.652	136.046
59.5	451.730	421.380	349.472	259.383	179.569	163.126	149.259	139.704	133.098
60.0	449.607	419.257	346.740	256.236	176.103	159.757	146.214	136.724	130.117
60.5	447.675	417.166	344.201	253.089	172.668	156.453	143.104	133.775	127.137
61.0	446.004	415.043	341.566	250.005	169.267	153.116	139.994	130.795	124.188
61.5	443.976	412.920	338.930	246.826	165.800	149.876	136.884	127.814	121.208
62.0	441.625	410.668	336.165	243.581	162.398	146.540	133.904	124.834	118.357
62.5	439.630	408.447	333.561	240.401	158.899	143.268	130.793	121.821	115.344
63.0	437.634	406.323	330.959	237.222	155.530	139.898	127.684	118.873	112.461
63.5	435.638	403.974	328.323	234.041	152.096	136.562	124.638	115.957	109.480
64.0	433.675	401.690	325.558	230.862	148.661	133.387	121.560	112.944	106.695
64.5	431.355	399.437	322.956	227.682	145.260	130.082	118.418	109.996	104.005
65.0	429.133	397.185	320.094	224.373	141.826	126.842	115.275	107.080	100.992
65.5	426.881	394.804	317.458	221.096	138.360	123.538	112.262	104.132	98.141
66.0	424.691	392.357	314.790	217.917	134.990	120.234	109.120	101.249	95.355
66.5	422.629	390.008	311.962	214.705	131.621	116.929	106.107	98.268	92.569
67.0	420.309	387.658	309.325	211.493	128.251	113.690	103.159	95.417	89.880
67.5	418.055	385.308	306.495	208.184	124.881	110.515	100.146	92.534	87.061
68.0	415.833	382.863	303.732	204.908	121.351	107.372	97.101	89.683	84.178
68.5	413.481	380.416	301.000	201.664	117.949	104.068	94.056	86.832	81.327
69.0	411.422	378.002	298.137	198.485	114.612	100.925	91.043	83.981	78.703
69.5	409.102	375.653	295.469	195.337	111.275	97.685	88.191	81.195	75.981
70.0	406.912	373.205	292.608	192.190	107.906	94.543	85.244	78.408	73.259
70.5	404.656	370.727	289.843	189.011	104.569	91.336	82.328	75.557	70.441
71.0	402.466	368.280	287.047	185.736	101.199	88.226	79.412	72.869	67.720
71.5	400.243	365.833	284.121	182.589	98.025	85.116	76.562	70.180	65.031
72.0	397.829	363.226	281.389	179.539	94.719	82.006	73.710	67.491	62.568
72.5	395.541	360.843	278.592	176.425	91.189	78.928	70.892	64.899	59.814
73.0	393.159	358.333	275.860	173.407	88.013	75.915	68.138	62.177	57.223
73.5	390.839	355.757	273.097	170.293	84.742	72.999	65.352	59.521	54.566
74.0	388.551	353.279	270.236	167.179	81.534	70.051	62.598	56.993	52.040
74.5	386.072	350.673	267.471	164.098	78.424	67.136	59.909	54.434	49.675
75.0	383.720	348.194	264.579	161.112	75.281	64.220	57.252	51.907	47.115
75.5	381.305	345.618	261.816	157.999	72.203	61.369	54.595	49.316	44.685
76.0	378.858	343.140	259.181	154.951	69.125	58.583	51.907	46.886	42.320
76.5	376.407	340.533	256.354	152.061	66.047	55.829	49.250	44.359	39.988
77.0	373.928	338.088	253.591	148.981	63.066	53.075	46.787	41.994	37.817
77.5	371.448	335.514	250.829	146.125	60.021	50.354	44.229	39.597	35.549
78.0	369.033	333.036	248.162	143.206	57.170	47.632	41.734	37.296	33.346
78.5	366.423	330.464	245.527	140.447	54.286	44.976	39.272	35.028	31.143
79.0	363.977	327.826	242.830	137.528	51.499	42.416	36.842	32.760	28.907
79.5	361.496	325.349	240.195	134.706	48.681	39.889	34.476	30.492	26.866
80.0	358.954	322.839	237.531	131.917	45.894	37.427	32.176	28.354	24.793
80.5	356.411	320.300	234.865	129.288	43.205	34.964	29.908	26.216	22.784
81.0	354.028	317.855	232.393	126.660	40.613	32.567	27.705	24.142	20.711
81.5	351.581	315.217	229.826	124.032	38.086	30.266	25.534	22.101	18.702
82.0	349.102	312.773	227.354	121.405	35.591	27.998	23.364	20.093	16.824
82.5	346.880	310.556	224.917	118.874	33.096	25.828	21.355	18.245	15.041

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CANDELA TABULATION - (Cont.)

83.0	344.467	308.177	222.414	116.504	30.699	23.625	19.346	16.366	13.195
83.5	342.183	305.765	219.976	114.167	28.399	21.486	17.435	14.520	11.413
84.0	339.963	303.483	217.668	111.831	26.163	19.445	15.556	12.738	9.663
84.5	337.678	301.137	215.328	109.496	23.960	17.469	13.644	10.956	8.044
85.0	335.522	298.758	213.021	107.289	21.822	15.557	11.830	9.304	6.585
85.5	333.398	296.573	210.615	105.083	19.716	13.646	10.080	7.716	5.289
86.0	331.277	294.483	208.308	102.974	17.675	11.799	8.395	6.291	4.350
86.5	329.312	292.583	206.226	100.865	15.699	10.016	6.775	5.189	3.701
87.0	327.506	291.257	204.172	98.917	13.820	8.267	5.350	4.314	3.280
87.5	326.208	290.248	202.630	96.905	11.941	6.582	4.345	3.762	3.020
88.0	325.580	289.780	201.531	94.924	10.030	4.929	3.632	3.374	2.889
88.5	325.106	289.438	200.844	93.197	8.118	3.569	3.243	3.082	2.728
89.0	324.826	289.352	200.668	92.011	6.174	2.921	3.016	2.984	2.695
89.5	324.769	289.298	200.524	91.618	4.520	2.693	2.919	2.887	2.662
90.0	324.806	289.276	200.541	91.641	3.866	2.629	2.886	2.886	2.694
90.5	324.556	289.352	200.559	91.825	4.593	2.628	2.885	2.886	2.661
91.0	324.692	289.589	200.802	92.687	6.178	2.659	2.853	2.917	2.661
91.5	324.764	290.019	201.336	94.198	8.082	3.167	2.884	2.885	2.629
92.0	325.158	290.708	202.548	96.002	9.923	4.086	2.980	2.853	2.692
92.5	325.585	291.881	204.213	97.805	11.699	5.577	3.233	2.948	2.755
93.0	326.465	293.347	206.201	99.897	13.475	7.323	3.867	3.075	2.978
93.5	327.603	295.199	208.318	101.763	15.315	9.068	4.946	3.423	3.485
94.0	329.291	297.309	210.498	103.885	17.251	10.845	6.406	4.121	4.469
94.5	331.335	299.453	212.548	105.975	19.218	12.558	8.088	5.232	5.833
95.0	333.475	301.755	214.952	108.064	21.249	14.430	9.800	6.564	7.356
95.5	335.616	304.090	217.259	110.250	23.343	16.334	11.577	8.183	9.102
96.0	337.853	306.263	219.533	112.498	25.501	18.237	13.482	9.929	10.815
96.5	340.025	308.501	221.872	114.843	27.721	20.236	15.354	11.673	12.655
97.0	342.229	310.772	224.211	117.218	30.006	22.235	17.289	13.513	14.527
97.5	344.496	313.104	226.581	119.594	32.386	24.361	19.257	15.450	16.368
98.0	346.698	315.436	228.953	122.127	34.734	26.519	21.224	17.322	18.239
98.5	349.029	317.832	231.451	124.693	37.241	28.740	23.286	19.288	20.271
99.0	351.327	320.261	233.949	127.227	39.843	31.120	25.412	21.287	22.301
99.5	353.626	322.625	236.478	129.888	42.444	33.468	27.601	23.382	24.428
100.0	355.924	325.053	239.071	132.580	45.110	35.943	29.790	25.476	26.458
100.5	358.222	327.512	241.631	135.272	47.838	38.418	32.075	27.571	28.616
101.0	360.648	329.907	244.256	138.060	50.631	40.893	34.456	29.728	30.742
101.5	362.882	332.301	246.848	140.816	53.455	43.559	36.804	31.918	32.995
102.0	365.307	334.793	249.566	143.635	56.342	46.032	39.247	34.171	35.312
102.5	367.636	337.188	252.189	146.422	59.230	48.825	41.690	36.487	37.596
103.0	370.031	339.647	254.844	149.241	62.245	52.125	44.197	38.803	39.944
103.5	372.423	342.074	257.531	152.123	65.291	54.854	46.735	41.183	42.261
104.0	374.819	344.500	260.249	155.070	68.273	57.170	49.274	43.595	44.736
104.5	377.146	347.055	262.934	157.952	71.320	60.090	51.939	46.070	47.210
105.0	379.604	349.449	265.589	160.834	74.493	62.882	54.573	48.577	49.717
105.5	381.710	351.908	268.338	163.780	77.635	65.833	57.238	51.084	52.224
106.0	384.134	354.366	270.992	166.757	80.807	69.133	59.967	53.622	54.795
106.5	386.400	356.728	273.646	169.767	84.076	72.560	62.728	56.193	57.332
107.0	388.761	359.155	276.332	172.681	87.281	75.066	65.457	58.826	60.094
107.5	391.122	361.613	278.986	175.691	90.549	77.764	68.313	61.428	62.664
108.0	393.387	364.007	281.737	178.763	93.818	80.810	71.105	64.221	65.361
108.5	395.620	366.401	284.454	181.836	97.149	83.920	73.929	66.885	68.027
109.0	398.013	368.700	287.141	184.877	100.449	86.997	76.848	69.678	70.756
109.5	400.214	371.255	289.826	187.886	103.749	90.107	79.736	72.375	73.453
110.0	402.511	373.490	292.449	191.023	107.113	93.249	82.592	75.168	76.278
110.5	404.744	375.885	294.975	194.095	110.476	96.390	85.543	77.960	79.038

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CANDELA TABULATION - (Cont.)

111.0	407.010	378.121	297.628	197.169	113.871	99.564	88.494	80.785	81.862
111.5	409.213	380.451	300.315	200.305	117.267	102.737	91.413	83.640	84.559
112.0	411.319	382.783	302.936	203.410	120.662	105.941	94.427	86.496	87.287
112.5	413.584	385.083	305.623	206.577	124.153	109.210	97.473	89.320	90.080
113.0	415.625	387.383	308.278	209.681	127.516	112.478	100.456	92.144	92.936
113.5	417.859	389.651	310.898	212.913	130.911	115.779	103.534	95.063	95.855
114.0	419.996	391.821	313.520	216.018	134.402	119.015	106.676	97.951	98.711
114.5	422.102	394.057	316.142	219.154	137.765	122.347	110.419	100.934	101.567
115.0	424.081	396.325	318.765	222.322	141.193	125.647	114.417	103.885	104.487
115.5	426.093	398.561	321.355	225.458	144.651	129.011	117.273	106.772	107.311
116.0	428.262	400.637	324.009	228.594	148.110	132.311	119.241	109.723	110.388
116.5	430.211	402.874	326.503	231.731	151.505	135.611	121.970	112.674	113.276
117.0	432.379	405.110	329.189	234.898	154.964	139.038	125.588	115.689	116.291
117.5	434.296	407.154	331.715	238.002	158.486	142.307	129.649	118.576	119.146
118.0	436.212	409.357	334.273	241.171	161.850	145.733	132.885	121.623	122.129
118.5	438.031	411.403	336.959	244.274	165.340	149.097	135.108	124.510	125.080
119.0	439.979	413.384	339.454	247.443	168.799	152.397	137.583	127.620	128.127
119.5	441.928	415.682	342.012	250.547	172.258	155.666	140.629	130.603	130.982
120.0	443.779	417.761	344.538	253.620	175.781	158.997	143.738	133.649	134.156
120.5	445.663	419.774	347.064	256.629	179.208	162.393	146.880	136.664	137.075
121.0	447.547	421.755	349.623	259.765	182.539	165.693	149.989	139.742	140.058
121.5	449.463	423.833	352.086	262.805	186.030	168.961	153.099	143.391	143.041
122.0	451.030	425.847	354.613	265.941	189.488	172.262	156.336	147.548	146.087
122.5	452.978	427.478	357.044	268.982	192.883	175.530	159.446	151.101	149.165
123.0	454.895	429.556	359.539	272.022	196.311	178.894	162.619	153.450	152.211
123.5	456.811	431.505	362.066	275.031	199.770	182.163	165.792	156.274	155.352
124.0	458.410	433.233	364.592	278.040	203.133	185.494	168.998	159.955	159.573
124.5	460.326	435.214	367.022	281.113	206.592	188.858	172.171	163.065	165.063
125.0	461.990	437.260	369.550	284.153	209.956	192.063	175.407	165.159	168.585
125.5	463.556	438.956	372.044	287.194	213.414	195.395	178.581	167.381	170.235
126.0	465.440	440.970	374.381	290.108	216.778	198.695	181.786	170.331	170.806
126.5	467.007	442.730	376.873	293.085	220.141	201.932	184.927	173.378	173.472
127.0	468.670	444.744	379.528	296.062	223.569	205.295	188.100	176.456	176.518
127.5	470.302	446.440	381.800	298.944	226.964	208.564	191.306	179.503	179.596
128.0	471.868	448.168	384.008	301.953	230.296	211.927	194.543	182.580	182.738
128.5	473.499	450.182	386.631	304.930	233.755	215.291	197.620	185.691	185.816
129.0	475.131	451.910	388.903	307.844	237.182	218.559	200.952	188.863	188.957
129.5	475.111	453.606	391.176	310.790	240.577	221.859	204.221	191.942	192.098
130.0	476.774	455.303	393.798	313.735	243.940	225.159	207.457	195.019	195.240
130.5	477.771	456.999	396.038	316.713	247.304	228.523	210.694	198.097	198.413
131.0	479.338	458.345	398.311	319.594	250.731	231.823	213.835	201.208	201.523
131.5	479.732	459.821	400.583	322.508	254.190	235.092	217.040	204.381	204.665
132.0	482.218	461.200	402.856	325.390	257.585	238.360	220.340	207.522	207.901
132.5	483.882	462.546	405.129	328.272	261.044	241.692	223.545	210.663	211.041
133.0	484.594	463.705	407.401	331.091	264.471	244.960	226.877	213.742	214.185
133.5	486.160	464.766	409.674	334.004	267.804	248.293	230.082	217.296	217.326
134.0	488.426	466.812	411.914	336.950	271.167	251.624	233.382	220.405	220.563
134.5	489.105	468.191	413.869	339.832	274.562	254.861	236.650	223.579	223.672
135.0	490.704	470.237	416.142	342.778	277.957	258.256	239.854	226.784	227.005
135.5	492.685	471.266	418.414	345.342	281.353	261.588	243.156	230.021	230.082
136.0	493.332	472.677	420.590	348.288	284.717	264.920	246.361	233.098	233.319
136.5	495.566	474.088	422.610	351.137	288.048	268.124	249.597	236.303	236.396
137.0	495.611	475.752	424.533	354.051	291.444	271.488	252.865	239.445	239.761
137.5	497.462	477.481	426.838	356.680	294.745	274.853	256.007	242.585	242.934
138.0	498.141	478.542	428.061	359.497	298.074	278.088	259.209	245.726	245.912
138.5	500.090	480.588	429.732	362.094	301.280	281.356	262.479	249.059	249.309

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CANDELA TABULATION - (Cont.)

139.0	501.184	481.364	432.004	364.975	304.580	284.529	265.684	252.200	252.547
139.5	502.084	482.711	433.610	367.507	307.913	287.861	268.889	255.406	255.752
140.0	503.080	484.154	435.597	370.071	311.181	291.034	271.999	258.547	258.926
140.5	504.744	485.598	436.601	372.920	314.482	294.335	275.299	261.848	262.353
141.0	505.708	486.977	438.239	375.452	317.846	297.540	278.568	265.211	265.717
141.5	507.022	487.469	440.511	378.301	321.178	300.777	281.772	268.511	268.985
142.0	507.766	489.229	442.117	380.865	324.351	304.013	284.976	271.811	272.285
142.5	508.763	490.608	444.105	383.397	327.524	307.186	288.150	274.952	275.585
143.0	510.330	491.637	445.710	385.993	330.697	310.423	291.323	278.125	278.853
143.5	511.676	492.414	447.348	388.590	334.187	313.723	294.623	281.489	282.154
144.0	511.086	493.540	449.303	391.186	337.392	316.959	297.795	284.788	285.453
144.5	512.815	494.984	450.941	393.751	340.598	320.006	301.032	288.056	288.753
145.0	514.414	496.078	452.262	396.062	343.771	323.179	304.205	291.229	292.181
145.5	514.491	497.172	454.535	398.659	346.944	326.384	307.377	294.498	295.354
146.0	515.455	497.883	455.823	400.970	349.832	329.557	310.487	297.671	298.622
146.5	517.216	499.327	457.493	402.615	353.005	332.730	313.628	300.906	301.890
147.0	517.928	500.039	459.099	404.894	356.178	335.903	316.897	304.111	305.189
147.5	519.274	501.515	460.452	406.571	359.066	339.141	320.038	307.347	308.362
148.0	519.287	501.657	462.090	408.533	362.239	342.282	323.211	310.584	311.694
148.5	519.396	502.433	463.093	411.130	365.128	345.137	326.416	313.820	314.931
149.0	520.360	503.877	464.731	413.409	368.333	348.025	329.557	316.992	318.231
149.5	520.852	503.384	465.735	415.086	371.189	351.231	332.730	320.070	321.404
150.0	521.149	504.763	467.373	417.715	374.044	354.404	335.903	323.243	324.895
150.5	522.179	505.540	469.360	419.709	376.900	357.292	339.076	326.734	328.068
151.0	522.223	506.316	469.762	422.021	379.788	360.148	341.964	329.874	331.526
151.5	523.285	506.491	471.717	423.983	382.676	363.321	345.137	333.080	334.731
152.0	523.362	506.982	472.435	426.295	385.565	366.209	348.310	336.220	338.189
152.5	523.090	507.759	473.788	427.972	388.420	369.065	351.516	339.393	341.394
153.0	523.167	507.901	475.141	430.283	390.991	371.953	354.339	342.249	344.568
153.5	524.196	508.710	476.145	432.278	392.610	374.809	357.545	345.740	347.741
154.0	523.638	509.202	476.863	434.589	395.783	378.014	360.400	348.880	351.263
154.5	524.350	509.376	477.517	436.266	398.004	380.552	363.573	352.053	354.469
155.0	525.030	509.835	478.805	437.944	399.940	383.473	366.462	354.909	357.609
155.5	524.822	509.725	479.711	439.970	402.194	386.296	369.635	358.082	360.815
156.0	523.915	510.216	480.300	441.615	405.050	389.217	372.523	361.255	363.955
156.5	524.627	510.740	480.954	443.642	407.303	390.803	375.378	364.396	366.811
157.0	524.956	510.565	481.925	445.351	409.874	393.692	378.234	367.251	370.017
157.5	523.498	510.772	482.579	446.678	412.095	396.230	381.440	370.424	373.190
158.0	523.595	510.027	483.329	448.356	414.349	398.768	384.295	373.598	376.363
158.5	522.746	510.234	483.763	449.748	416.887	400.705	386.834	376.453	379.218
159.0	521.871	510.440	484.514	451.425	419.141	403.243	388.738	379.309	382.392
159.5	522.712	510.615	484.947	453.134	421.045	406.099	392.578	382.482	385.247
160.0	521.676	510.439	485.413	454.494	423.615	408.352	394.164	385.338	388.420
160.5	520.930	510.232	486.197	455.569	425.552	410.923	397.052	388.194	391.308
161.0	521.195	510.276	486.663	456.961	427.138	413.144	399.273	390.415	394.449
161.5	520.580	509.117	487.413	458.321	429.677	415.683	401.210	393.270	396.988
162.0	520.159	508.624	486.643	459.713	431.263	417.936	404.065	396.126	398.192
162.5	518.967	507.847	487.743	460.153	433.834	420.507	406.287	398.347	400.983
163.0	518.629	508.371	487.607	461.862	435.453	423.046	409.492	400.568	403.424
163.5	518.039	507.341	487.788	462.588	437.674	424.982	411.713	403.424	406.247
164.0	518.214	507.327	488.254	463.662	439.260	426.886	413.934	405.963	408.753
164.5	517.184	506.330	488.118	464.387	441.197	429.107	416.822	408.851	412.179
165.0	516.186	506.284	488.299	465.462	443.100	431.645	419.361	411.072	414.717
165.5	514.554	504.652	488.195	466.505	445.037	433.264	421.265	413.293	416.939
166.0	514.541	504.036	488.026	467.580	446.623	435.168	423.518	416.149	420.047
166.5	513.828	503.388	488.240	468.654	447.892	437.421	426.024	418.687	422.903

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167.0	513.050	502.740	487.818	468.492	449.511	439.008	428.595	420.941	425.441
167.5	511.671	501.523	487.715	469.282	450.813	440.912	430.182	423.829	427.662
168.0	509.468	500.590	487.611	470.072	452.399	442.848	432.752	426.367	430.233
168.5	509.138	499.845	487.507	470.895	453.986	444.752	435.323	428.938	432.739
169.0	507.221	498.750	486.768	470.415	455.605	446.656	436.877	430.842	434.928
169.5	506.255	497.564	486.664	471.490	456.524	447.925	439.416	433.698	436.799
170.0	505.290	496.347	486.243	471.678	457.476	449.861	441.352	435.601	439.338
170.5	504.357	495.796	485.220	472.183	458.461	451.448	442.971	437.855	441.591
171.0	502.408	494.643	485.466	472.403	459.095	453.034	444.590	440.076	443.527
171.5	500.873	493.490	484.093	472.623	460.714	454.018	446.526	442.362	446.066
172.0	500.037	492.052	484.054	473.128	462.016	455.605	448.430	443.631	447.905
172.5	498.534	490.647	483.030	473.031	462.935	457.191	450.334	446.170	450.411
173.0	496.429	489.494	482.072	472.966	463.602	458.778	452.238	448.073	451.648
173.5	495.309	488.056	481.780	473.536	464.205	459.413	453.824	449.660	453.901
174.0	494.124	486.935	480.504	473.471	464.522	460.999	455.093	451.596	456.090
174.5	492.271	484.895	479.610	473.406	465.506	462.586	456.647	453.500	457.042
175.0	490.419	483.490	478.717	472.739	466.458	463.538	457.917	455.054	458.913
175.5	488.599	482.149	477.855	473.374	467.060	464.140	459.536	456.673	460.183
176.0	488.113	480.841	477.026	473.342	467.727	465.441	461.090	458.292	462.753
176.5	485.471	478.963	476.230	473.057	468.012	466.076	463.026	459.911	463.738
177.0	484.098	477.784	474.863	473.057	468.077	467.028	463.343	461.465	465.324
177.5	482.057	476.003	474.481	472.422	468.679	467.345	464.930	462.734	466.244
178.0	480.147	474.921	473.814	472.422	468.996	468.297	465.849	464.670	468.815
178.5	478.114	472.953	472.862	472.105	468.996	469.249	466.801	465.907	470.369
179.0	476.747	472.286	471.593	472.105	469.314	469.566	468.420	467.177	471.003
179.5	475.445	471.049	470.958	471.470	469.314	470.201	469.055	468.161	473.574
180.0	470.512	470.512	470.512	470.512	470.512	470.512	470.512	470.512	470.512

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-935U-L19-935D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	174.69	N.A.	5.50
0-30	371.08	N.A.	11.70
0-40	608.71	N.A.	19.20
0-60	1102.52	N.A.	34.70
0-80	1476.59	N.A.	46.50
0-90	1594.1	N.A.	50.20
10-90	1548.97	N.A.	48.80
20-40	434.02	N.A.	13.70
20-50	685.98	N.A.	21.60
40-70	704.05	N.A.	22.20
60-80	374.08	N.A.	11.80
70-80	163.83	N.A.	5.20
80-90	117.51	N.A.	3.70
90-110	280.28	N.A.	8.80
90-120	489.05	N.A.	15.40
90-130	729.18	N.A.	23.00
90-150	1214.71	N.A.	38.20
90-180	1581.67	N.A.	49.80
110-180	1301.38	N.A.	41.00
0-180	3175.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.13
10-20	129.56
20-30	196.39
30-40	237.63
40-50	251.96
50-60	241.84
60-70	210.25
70-80	163.83
80-90	117.51
90-100	117.34
100-110	162.95
110-120	208.77
120-130	240.13
130-140	250.04
140-150	235.49
150-160	194.30
160-170	128.04
170-180	44.62

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-935U-L19-935D-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-L19-935U-L19-935D-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	18.7	19.6	19.7	20.6	21.9	12.8	13.7	13.7	14.7	15.9
	3H	21.8	22.6	22.8	23.6	24.9	14.1	15.0	15.1	15.9	17.2
	4H	23.4	24.2	24.4	25.2	26.4	14.6	15.3	15.5	16.3	17.6
	6H	25.1	25.8	26.0	26.8	28.1	14.8	15.5	15.8	16.5	17.8
	8H	25.9	26.6	26.9	27.7	29.0	14.9	15.5	15.8	16.6	17.9
	12H	26.9	27.6	27.9	28.6	29.9	14.9	15.5	15.9	16.5	17.9

UGR Viewed Endwise

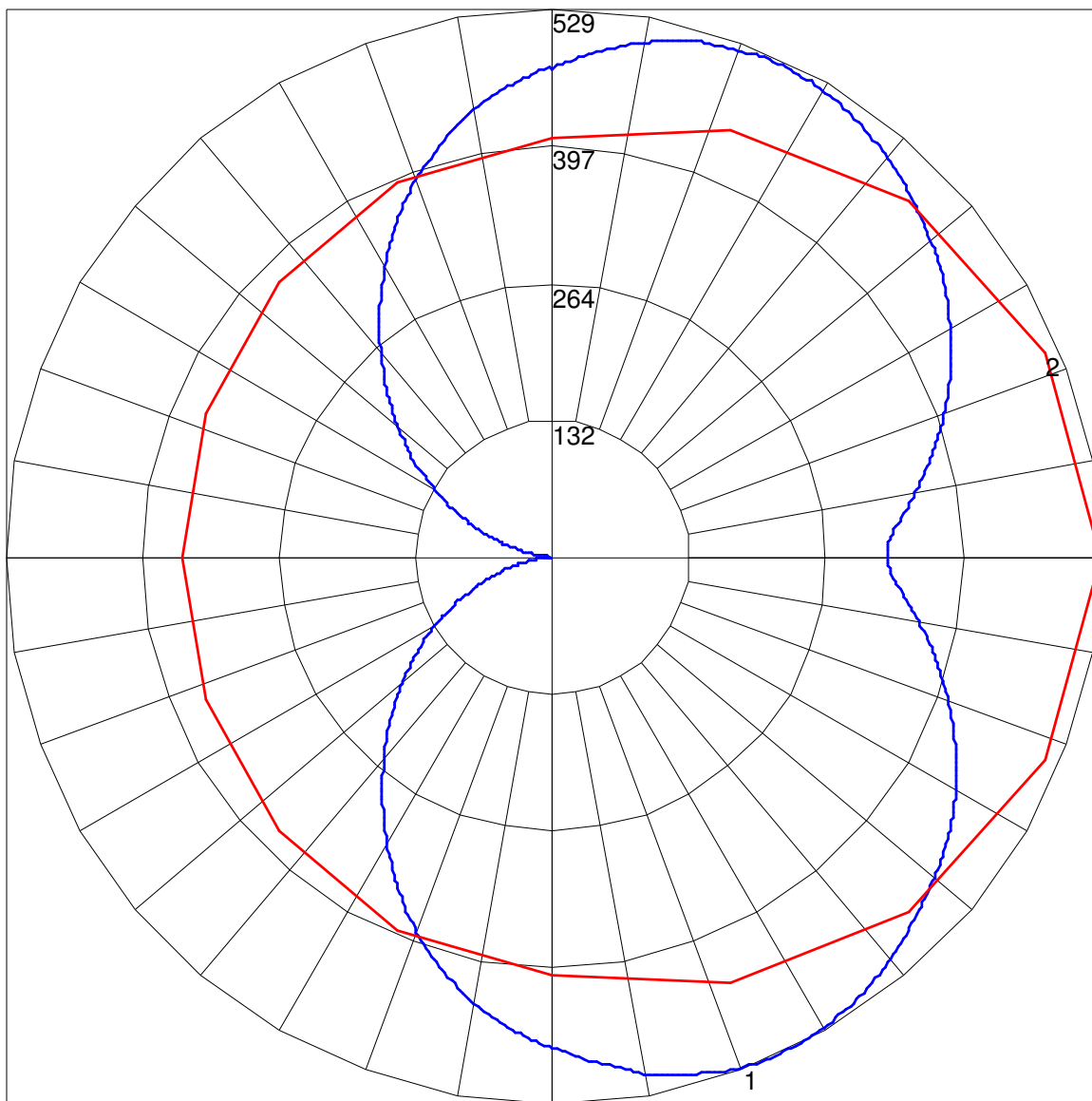
4H	2H	19.0	19.8	20.0	20.8	22.1	14.0	14.8	15.0	15.8	17.1
	3H	22.3	23.0	23.3	24.0	25.3	15.7	16.3	16.6	17.3	18.6
	4H	24.1	24.7	25.1	25.7	27.0	16.2	16.8	17.2	17.8	19.2
	6H	26.0	26.5	27.0	27.5	28.8	16.6	17.1	17.6	18.2	19.5
	8H	26.9	27.4	28.0	28.5	29.8	16.7	17.2	17.7	18.2	19.6
	12H	28.0	28.5	29.1	29.5	30.9	16.7	17.2	17.8	18.2	19.6

8H	4H	24.2	24.7	25.2	25.7	27.1	17.3	17.8	18.3	18.8	20.2
	6H	26.3	26.7	27.3	27.7	29.1	18.0	18.4	19.0	19.4	20.8
	8H	27.4	27.8	28.4	28.8	30.2	18.2	18.6	19.2	19.6	21.0
	12H	28.7	29.0	29.7	30.1	31.5	18.3	18.6	19.3	19.7	21.1

12H	4H	24.2	24.6	25.2	25.7	27.0	17.7	18.1	18.7	19.2	20.5
	6H	26.3	26.6	27.3	27.7	29.1	18.5	18.9	19.5	19.9	21.3
	8H	27.5	27.8	28.5	28.8	30.2	18.8	19.1	19.8	20.2	21.6

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 528.765 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.)