

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-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-L19-830U-L19-830D-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	3788
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	10429	9823	9365
55	10367	9387	8552
65	10385	9047	7587
75	10566	8823	6170
85	11106	8995	4088

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES

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	566.898	566.898	566.898	566.898	566.898	566.898	566.898	566.898	566.898
0.5	567.695	568.641	567.587	569.746	565.882	568.822	565.004	564.974	565.027
1.0	569.240	569.989	569.671	570.208	565.533	567.973	563.382	563.352	563.444
1.5	571.286	571.800	570.284	571.443	565.533	566.390	562.534	561.382	560.739
2.0	573.021	574.035	571.670	571.557	565.109	565.193	560.988	559.799	559.155
2.5	575.529	575.573	573.519	572.057	564.723	564.420	559.442	558.639	557.648
3.0	577.188	577.883	574.981	572.170	564.336	563.647	558.283	556.321	555.678
3.5	579.385	579.921	576.057	573.481	564.336	562.064	556.351	554.737	554.518
4.0	582.279	581.959	577.905	573.595	563.526	560.518	555.578	552.805	551.813
4.5	583.590	583.648	579.367	573.360	563.139	560.131	553.646	550.873	549.457
5.0	584.317	585.761	580.632	574.632	562.366	558.199	551.327	548.903	547.176
5.5	587.014	587.488	581.048	574.784	561.207	556.267	550.168	546.971	546.017
6.0	588.825	588.866	582.162	574.549	560.396	555.843	548.622	545.388	543.661
6.5	590.287	591.480	583.313	574.352	559.661	554.335	546.615	542.645	541.380
7.0	591.749	593.131	584.078	574.427	559.237	553.100	544.682	540.288	538.637
7.5	593.241	594.510	584.881	574.268	557.267	551.168	542.364	538.356	535.932
8.0	596.111	595.502	585.873	573.260	556.108	549.236	540.432	536.000	533.227
8.5	598.655	596.956	586.865	573.836	555.721	548.077	538.462	533.681	530.560
9.0	602.131	598.485	587.743	573.214	553.789	546.107	536.105	530.552	527.855
9.5	603.850	599.818	588.273	573.403	552.592	543.788	533.787	528.196	527.082
10.0	605.766	601.886	588.765	572.858	551.433	542.204	531.855	525.877	522.831
10.5	607.644	603.105	589.643	572.274	549.501	540.310	529.498	523.134	520.937
11.0	608.788	603.975	590.173	571.342	548.690	538.340	526.755	521.202	518.232
11.5	609.817	605.346	590.317	570.410	546.372	536.022	524.475	518.073	514.754
12.0	610.461	606.330	590.847	570.250	544.826	534.825	522.118	515.368	511.701
12.5	612.688	608.087	591.028	569.318	543.629	531.695	519.413	512.663	508.996
13.0	613.945	609.033	591.285	568.386	542.083	529.763	516.671	509.534	505.207
13.5	614.929	610.290	591.542	567.840	539.378	527.445	514.314	506.404	502.964
14.0	616.799	611.084	591.837	566.946	538.181	524.315	510.836	503.313	499.600
14.5	618.094	611.917	591.283	565.589	536.249	522.383	508.093	500.222	496.160
15.0	618.116	612.325	591.464	564.695	533.506	520.027	505.389	497.130	492.720
15.5	618.919	612.772	591.410	562.952	531.187	517.670	502.259	493.652	490.788
16.0	619.259	613.604	590.970	561.520	529.217	514.965	499.903	490.561	486.113
16.5	620.924	614.437	591.689	561.012	527.285	512.261	496.811	487.856	483.795
17.0	622.749	614.110	591.636	559.269	525.353	509.131	494.069	484.340	481.514
17.5	623.036	615.367	591.158	557.102	522.610	507.161	490.553	481.984	477.612
18.0	624.133	615.041	590.680	556.208	519.905	503.259	487.075	478.506	474.907
18.5	625.617	615.525	590.088	554.540	517.163	500.941	485.492	476.574	471.391
19.0	625.245	616.009	589.959	553.335	514.844	497.811	482.400	473.096	467.913
19.5	626.994	616.068	588.981	551.782	512.101	495.455	478.885	469.618	464.011
20.0	627.856	615.817	588.851	549.728	509.783	492.364	477.339	466.140	460.533
20.5	628.105	616.302	587.525	548.061	507.426	489.234	473.823	462.625	456.631
21.0	628.317	616.013	587.009	545.772	503.948	486.143	470.345	459.147	453.153
21.5	628.952	616.186	586.069	544.605	501.592	484.559	467.254	455.283	449.289
22.0	629.777	616.049	585.166	543.089	498.501	480.695	463.738	451.805	445.387
22.5	630.253	615.911	584.226	541.111	495.371	477.914	460.223	448.327	441.909
23.0	629.918	616.122	583.324	539.096	492.629	474.050	456.745	444.463	438.007
23.5	630.008	615.712	582.770	536.307	489.151	472.505	453.229	440.599	434.143
24.0	630.446	615.650	581.481	534.829	486.832	469.375	449.713	437.083	429.892
24.5	630.695	615.513	580.579	532.578	483.316	465.897	446.236	433.256	426.414
25.0	630.171	615.413	578.904	530.949	482.157	462.344	442.720	429.354	422.512
25.5	629.261	614.541	578.002	528.971	479.414	458.866	439.242	425.490	418.262
26.0	629.510	614.328	576.713	525.834	476.709	455.350	435.340	422.012	414.746
26.5	629.024	613.342	575.462	523.431	473.194	451.873	431.824	418.148	410.457

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	628.152	612.743	574.635	521.454	469.678	448.319	427.960	414.284	406.593
27.5	628.128	612.529	572.301	519.476	466.549	444.841	424.444	410.382	402.691
28.0	628.377	611.543	570.777	515.914	463.071	440.939	420.929	406.517	398.440
28.5	627.353	610.558	569.602	514.285	459.980	437.461	417.064	402.653	394.538
29.0	626.519	610.344	568.427	511.148	456.115	433.946	413.200	398.402	390.674
29.5	626.343	608.586	566.941	507.935	452.600	430.081	409.298	394.538	386.617
30.0	626.047	607.524	565.379	505.919	449.084	426.141	405.820	390.636	382.599
30.5	625.061	606.652	563.818	503.168	445.606	422.664	401.918	386.733	378.734
31.0	624.923	606.052	562.294	500.342	442.128	418.762	398.054	382.830	374.716
31.5	624.089	605.377	559.959	499.099	438.613	414.897	394.190	379.005	370.737
32.0	622.792	604.391	558.822	495.886	434.748	411.382	390.288	375.024	366.910
32.5	623.041	603.019	556.836	494.256	431.233	407.479	386.385	371.159	362.855
33.0	620.934	602.457	555.199	491.506	427.755	403.615	382.482	367.103	358.797
33.5	621.296	600.660	553.175	488.331	423.853	399.713	378.618	363.200	354.894
34.0	620.772	599.326	550.765	485.542	419.989	395.849	374.715	359.374	350.838
34.5	619.551	597.953	548.355	482.329	416.086	392.333	370.813	355.394	346.896
35.0	618.103	596.581	546.755	479.154	412.222	388.353	366.987	351.491	343.070
35.5	617.193	595.633	545.080	476.365	408.744	384.451	363.161	347.550	339.052
36.0	615.737	593.488	542.746	473.190	404.880	380.548	359.258	343.685	335.034
36.5	614.903	592.115	541.109	470.015	400.629	376.646	355.202	339.899	331.053
37.0	613.568	591.167	538.274	466.802	396.727	372.859	351.415	335.919	327.035
37.5	612.385	589.060	535.826	463.627	392.863	368.841	347.551	331.900	323.248
38.0	611.899	587.301	534.264	460.452	388.999	364.938	343.609	328.113	319.153
38.5	609.481	585.966	531.081	457.277	385.058	360.958	339.745	324.173	315.096
39.0	608.298	585.018	529.020	453.716	381.039	357.133	335.803	320.308	311.154
39.5	606.615	582.873	529.315	450.503	377.136	353.230	332.016	316.367	307.251
40.0	606.166	581.539	526.942	447.328	373.118	349.211	328.191	312.503	303.464
40.5	603.824	580.128	524.570	443.766	369.100	345.309	324.211	308.638	299.561
41.0	602.065	578.097	522.122	440.554	365.197	341.406	320.347	304.736	295.583
41.5	600.109	576.338	519.750	437.068	361.101	337.350	316.405	300.949	291.756
42.0	599.623	574.928	516.915	433.931	357.120	333.639	312.542	297.008	287.931
42.5	598.016	573.207	514.505	430.793	353.102	329.698	308.639	293.067	284.144
43.0	596.022	570.289	512.019	427.732	349.083	325.718	304.775	289.357	280.126
43.5	595.074	568.916	509.647	424.246	344.871	321.738	300.795	285.378	276.377
44.0	593.042	567.157	506.888	420.760	340.930	317.836	296.814	281.475	272.706
44.5	591.435	565.437	504.016	417.237	336.834	313.972	292.912	277.650	268.881
45.0	590.252	564.064	501.644	414.062	332.815	309.876	289.048	273.709	265.133
45.5	587.720	561.570	498.847	410.577	328.797	305.934	285.029	269.922	261.192
46.0	587.545	559.849	496.051	407.132	324.701	301.954	281.165	266.096	257.405
46.5	585.202	558.863	493.640	403.647	320.643	298.013	277.185	262.194	253.773
47.0	584.330	558.264	490.844	400.085	316.431	294.072	273.282	258.445	250.103
47.5	583.033	556.657	488.009	396.716	312.258	290.053	269.380	254.581	246.200
48.0	581.464	554.398	485.326	393.346	308.123	285.919	265.553	250.910	242.413
48.5	578.932	552.366	482.416	389.937	304.066	281.900	261.574	247.086	238.665
49.0	577.362	550.221	479.658	386.413	300.009	277.920	257.671	243.376	234.839
49.5	575.831	548.076	476.823	382.889	295.913	274.017	253.846	239.628	231.207
50.0	576.042	546.393	473.989	379.443	291.778	270.038	250.021	235.880	227.381
50.5	573.275	544.247	471.230	375.882	287.682	265.941	246.079	232.324	223.672
51.0	572.751	542.178	468.471	372.437	283.625	262.000	242.254	228.538	219.925
51.5	570.833	540.070	465.250	368.874	279.567	257.942	238.351	224.790	216.292
52.0	568.915	537.539	462.378	365.159	275.432	254.040	234.602	221.119	212.737
52.5	567.270	535.431	459.619	361.675	271.375	250.099	230.778	217.448	209.027
53.0	565.238	533.248	456.436	358.036	267.279	246.080	226.913	213.777	205.279
53.5	563.207	531.179	453.563	354.437	263.299	242.023	223.049	210.145	201.532
54.0	561.326	528.996	450.574	350.759	259.165	238.120	219.223	206.397	198.208
54.5	559.295	526.615	447.469	347.043	255.185	234.255	215.437	202.804	194.538

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	557.339	524.432	444.518	343.444	251.127	230.237	211.612	199.094	190.828
55.5	555.345	521.901	441.605	339.689	247.108	226.181	207.826	195.423	187.272
56.0	553.389	519.793	438.577	336.051	243.012	222.277	204.076	191.906	183.525
56.5	551.508	517.262	435.433	332.258	238.954	218.298	200.174	188.119	180.086
57.0	549.515	515.192	432.329	328.503	234.859	214.394	196.541	184.642	176.684
57.5	547.134	512.698	429.337	324.749	230.839	210.338	192.832	180.894	172.937
58.0	545.027	510.129	426.271	320.879	226.666	206.396	189.007	177.378	169.343
58.5	543.147	507.635	423.129	317.125	222.570	202.493	185.336	173.784	165.711
59.0	541.153	505.217	419.870	313.254	218.397	198.552	181.665	170.151	162.272
59.5	538.810	502.610	416.840	309.384	214.185	194.572	178.032	166.635	158.755
60.0	536.279	500.078	413.581	305.631	210.050	190.554	174.400	163.080	155.200
60.5	533.974	497.584	410.553	301.877	205.954	186.612	170.691	159.563	151.645
61.0	531.980	495.051	407.410	298.199	201.897	182.632	166.981	156.008	148.128
61.5	529.562	492.519	404.266	294.407	197.762	178.768	163.271	152.453	144.573
62.0	526.758	489.833	400.968	290.536	193.703	174.789	159.716	148.899	141.173
62.5	524.377	487.184	397.862	286.744	189.530	170.886	156.007	145.305	137.579
63.0	521.997	484.651	394.758	282.951	185.511	166.867	152.298	141.789	134.140
63.5	519.617	481.848	391.615	279.158	181.415	162.887	148.665	138.310	130.585
64.0	517.275	479.124	388.316	275.365	177.319	159.100	144.994	134.716	127.262
64.5	514.508	476.437	385.212	271.573	173.262	155.158	141.245	131.200	124.054
65.0	511.858	473.751	381.799	267.626	169.166	151.294	137.497	127.722	120.460
65.5	509.171	470.910	378.655	263.717	165.032	147.352	133.903	124.205	117.060
66.0	506.559	467.992	375.473	259.925	161.012	143.412	130.155	120.766	113.737
66.5	504.100	465.190	372.099	256.094	156.994	139.470	126.562	117.211	110.413
67.0	501.333	462.387	368.954	252.263	152.974	135.606	123.045	113.811	107.206
67.5	498.644	459.584	365.579	248.316	148.955	131.819	119.451	110.371	103.844
68.0	495.994	456.668	362.282	244.408	144.743	128.071	115.819	106.971	100.405
68.5	493.188	453.749	359.024	240.538	140.686	124.129	112.187	103.570	97.004
69.0	490.732	450.870	355.610	236.747	136.706	120.381	108.593	100.170	93.874
69.5	487.966	448.068	352.427	232.993	132.726	116.516	105.192	96.847	90.628
70.0	485.353	445.148	349.015	229.239	128.707	112.768	101.676	93.523	87.382
70.5	482.662	442.193	345.717	225.446	124.727	108.943	98.198	90.123	84.020
71.0	480.050	439.274	342.381	221.540	120.708	105.234	94.720	86.915	80.774
71.5	477.398	436.355	338.892	217.787	116.921	101.524	91.321	83.708	77.567
72.0	474.519	433.246	335.632	214.149	112.978	97.814	87.919	80.501	74.630
72.5	471.790	430.404	332.296	210.435	108.767	94.143	84.557	77.409	71.345
73.0	468.949	427.409	329.038	206.835	104.979	90.549	81.273	74.163	68.254
73.5	466.181	424.337	325.742	203.120	101.077	87.072	77.950	70.995	65.085
74.0	463.453	421.380	322.329	199.407	97.251	83.555	74.665	67.980	62.071
74.5	460.496	418.272	319.031	195.732	93.541	80.077	71.458	64.927	59.251
75.0	457.691	415.316	315.583	192.170	89.793	76.599	68.289	61.914	56.198
75.5	454.810	412.244	312.287	188.457	86.121	73.199	65.119	58.822	53.299
76.0	451.891	409.288	309.144	184.821	82.450	69.876	61.913	55.924	50.478
76.5	448.968	406.178	305.772	181.374	78.779	66.591	58.744	52.910	47.696
77.0	446.010	403.262	302.476	177.700	75.223	63.306	55.807	50.089	45.107
77.5	443.052	400.191	299.181	174.293	71.591	60.060	52.755	47.230	42.402
78.0	440.172	397.236	296.000	170.812	68.190	56.815	49.779	44.486	39.774
78.5	437.059	394.168	292.858	167.521	64.751	53.646	46.842	41.780	37.146
79.0	434.141	391.021	289.640	164.040	61.427	50.593	43.944	39.075	34.480
79.5	431.183	388.067	286.498	160.673	58.065	47.579	41.122	36.370	32.045
80.0	428.150	385.074	283.320	157.346	54.741	44.641	38.379	33.820	29.572
80.5	425.116	382.044	280.140	154.211	51.534	41.704	35.674	31.269	27.177
81.0	422.275	379.129	277.192	151.076	48.441	38.845	33.046	28.796	24.703
81.5	419.356	375.982	274.130	147.942	45.427	36.101	30.456	26.362	22.308
82.0	416.399	373.067	271.182	144.808	42.452	33.396	27.868	23.966	20.067
82.5	413.748	370.423	268.274	141.789	39.476	30.807	25.471	21.763	17.940

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	410.870	367.584	265.289	138.963	36.617	28.179	23.076	19.521	15.738
83.5	408.146	364.707	262.381	136.175	33.873	25.628	20.796	17.319	13.613
84.0	405.498	361.985	259.628	133.389	31.207	23.193	18.554	15.193	11.525
84.5	402.772	359.187	256.837	130.603	28.579	20.836	16.275	13.068	9.594
85.0	400.201	356.350	254.085	127.971	26.029	18.556	14.111	11.097	7.854
85.5	397.668	353.744	251.216	125.340	23.517	16.276	12.023	9.204	6.309
86.0	395.137	351.251	248.463	122.824	21.083	14.073	10.014	7.503	5.188
86.5	392.794	348.985	245.980	120.308	18.725	11.947	8.082	6.189	4.414
87.0	390.640	347.403	243.531	117.985	16.484	9.861	6.381	5.145	3.912
87.5	389.091	346.200	241.692	115.585	14.243	7.850	5.183	4.488	3.602
88.0	388.342	345.642	240.381	113.223	11.963	5.880	4.332	4.024	3.446
88.5	387.777	345.233	239.561	111.163	9.683	4.257	3.868	3.676	3.254
89.0	387.443	345.131	239.352	109.748	7.364	3.484	3.597	3.560	3.214
89.5	387.375	345.067	239.179	109.279	5.391	3.213	3.481	3.444	3.176
90.0	387.419	345.040	239.199	109.307	4.611	3.135	3.442	3.443	3.213
90.5	387.121	345.130	239.222	109.526	5.478	3.134	3.441	3.442	3.174
91.0	387.283	345.413	239.510	110.555	7.369	3.172	3.403	3.480	3.174
91.5	387.369	345.926	240.147	112.357	9.640	3.777	3.440	3.441	3.135
92.0	387.840	346.748	241.594	114.508	11.835	4.874	3.554	3.403	3.211
92.5	388.348	348.147	243.580	116.659	13.954	6.653	3.856	3.516	3.287
93.0	389.397	349.895	245.951	119.154	16.073	8.734	4.613	3.668	3.552
93.5	390.756	352.105	248.476	121.380	18.268	10.816	5.900	4.083	4.157
94.0	392.769	354.622	251.076	123.911	20.576	12.935	7.641	4.916	5.330
94.5	395.207	357.179	253.521	126.404	22.923	14.978	9.647	6.241	6.958
95.0	397.760	359.925	256.389	128.896	25.345	17.211	11.690	7.830	8.774
95.5	400.313	362.710	259.141	131.503	27.843	19.483	13.809	9.760	10.856
96.0	402.981	365.302	261.853	134.184	30.417	21.753	16.081	11.842	12.900
96.5	405.572	367.971	264.642	136.981	33.065	24.137	18.314	13.923	15.095
97.0	408.200	370.679	267.432	139.815	35.790	26.522	20.622	16.118	17.328
97.5	410.905	373.461	270.259	142.648	38.630	29.057	22.969	18.428	19.523
98.0	413.532	376.243	273.088	145.670	41.429	31.631	25.315	20.661	21.755
98.5	416.312	379.101	276.068	148.731	44.420	34.280	27.775	23.007	24.178
99.0	419.053	381.998	279.048	151.752	47.524	37.119	30.311	25.391	26.601
99.5	421.795	384.818	282.064	154.927	50.626	39.919	32.922	27.890	29.137
100.0	424.536	387.714	285.157	158.137	53.805	42.872	35.533	30.388	31.558
100.5	427.277	390.647	288.211	161.349	57.060	45.824	38.258	32.886	34.132
101.0	430.171	393.504	291.342	164.674	60.392	48.776	41.098	35.459	36.668
101.5	432.836	396.359	294.433	167.961	63.759	51.956	43.898	38.071	39.355
102.0	435.727	399.332	297.676	171.324	67.203	54.906	46.812	40.758	42.119
102.5	438.506	402.188	300.804	174.648	70.647	58.238	49.727	43.521	44.844
103.0	441.362	405.121	303.971	178.011	74.244	62.174	52.717	46.283	47.644
103.5	444.216	408.016	307.175	181.448	77.877	65.428	55.744	49.122	50.407
104.0	447.073	410.909	310.418	184.963	81.435	68.191	58.772	51.999	53.359
104.5	449.849	413.957	313.621	188.400	85.068	71.673	61.951	54.950	56.311
105.0	452.780	416.813	316.787	191.838	88.853	75.004	65.093	57.941	59.301
105.5	455.292	419.745	320.066	195.352	92.600	78.524	68.272	60.931	62.291
106.0	458.183	422.678	323.232	198.903	96.384	82.460	71.527	63.959	65.358
106.5	460.886	425.495	326.397	202.493	100.283	86.547	74.820	67.025	68.385
107.0	463.702	428.390	329.601	205.969	104.106	89.537	78.075	70.166	71.678
107.5	466.519	431.321	332.767	209.559	108.004	92.754	81.481	73.269	74.744
108.0	469.221	434.177	336.047	213.224	111.903	96.387	84.812	76.601	77.961
108.5	471.884	437.033	339.289	216.889	115.877	100.097	88.180	79.779	81.141
109.0	474.738	439.775	342.493	220.516	119.813	103.768	91.662	83.110	84.395
109.5	477.363	442.823	345.696	224.105	123.749	107.477	95.107	86.327	87.612
110.0	480.103	445.488	348.824	227.847	127.761	111.224	98.513	89.658	90.982
110.5	482.767	448.345	351.838	231.511	131.773	114.971	102.033	92.988	94.274

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	485.469	451.011	355.003	235.177	135.823	118.757	105.553	96.358	97.643
111.5	488.097	453.791	358.208	238.918	139.872	122.541	109.035	99.764	100.860
112.0	490.609	456.573	361.334	242.621	143.922	126.364	112.630	103.170	104.114
112.5	493.311	459.316	364.538	246.399	148.086	130.262	116.264	106.538	107.445
113.0	495.746	462.059	367.705	250.102	152.098	134.160	119.821	109.907	110.851
113.5	498.410	464.764	370.831	253.957	156.147	138.097	123.492	113.389	114.333
114.0	500.959	467.353	373.958	257.660	160.310	141.958	127.240	116.833	117.740
114.5	503.471	470.020	377.085	261.400	164.322	145.932	131.705	120.391	121.146
115.0	505.832	472.726	380.213	265.179	168.410	149.869	136.474	123.911	124.629
115.5	508.232	475.392	383.302	268.920	172.536	153.880	139.880	127.355	127.997
116.0	510.818	477.868	386.469	272.660	176.661	157.816	142.227	130.875	131.668
116.5	513.143	480.537	389.443	276.401	180.711	161.753	145.482	134.395	135.112
117.0	515.730	483.204	392.647	280.180	184.837	165.840	149.798	137.990	138.708
117.5	518.015	485.642	395.660	283.882	189.038	169.739	154.642	141.434	142.114
118.0	520.301	488.269	398.711	287.662	193.050	173.827	158.502	145.068	145.672
118.5	522.470	490.710	401.915	291.363	197.213	177.839	161.153	148.512	149.192
119.0	524.795	493.072	404.891	295.143	201.339	181.775	164.105	152.221	152.826
119.5	527.119	495.814	407.942	298.845	205.464	185.674	167.738	155.779	156.232
120.0	529.327	498.293	410.955	302.510	209.666	189.647	171.447	159.412	160.017
120.5	531.574	500.694	413.968	306.099	213.754	193.698	175.194	163.009	163.499
121.0	533.821	503.057	417.021	309.840	217.728	197.634	178.903	166.680	167.058
121.5	536.107	505.536	419.958	313.466	221.891	201.532	182.612	171.032	170.615
122.0	537.975	507.937	422.973	317.207	226.016	205.469	186.473	175.991	174.248
122.5	540.300	509.883	425.872	320.834	230.066	209.367	190.182	180.229	177.920
123.0	542.585	512.362	428.847	324.460	234.154	213.380	193.968	183.031	181.553
123.5	544.871	514.686	431.862	328.049	238.279	217.278	197.752	186.399	185.300
124.0	546.778	516.748	434.875	331.639	242.291	221.252	201.576	190.790	190.334
124.5	549.063	519.111	437.773	335.303	246.417	225.265	205.360	194.499	196.883
125.0	551.048	521.551	440.788	338.929	250.429	229.087	209.221	196.997	201.083
125.5	552.916	523.574	443.763	342.557	254.555	233.061	213.006	199.647	203.052
126.0	555.163	525.976	446.550	346.032	258.566	236.997	216.829	203.166	203.733
126.5	557.032	528.076	449.523	349.583	262.578	240.859	220.576	206.800	206.912
127.0	559.016	530.478	452.690	353.135	266.666	244.870	224.360	210.472	210.545
127.5	560.962	532.501	455.401	356.572	270.716	248.769	228.184	214.105	214.217
128.0	562.831	534.562	458.034	360.161	274.690	252.780	232.045	217.777	217.964
128.5	564.776	536.964	461.162	363.712	278.816	256.793	235.715	221.486	221.635
129.0	566.722	539.026	463.872	367.187	282.904	260.691	239.690	225.270	225.382
129.5	566.698	541.049	466.583	370.701	286.953	264.627	243.588	228.942	229.129
130.0	568.683	543.072	469.711	374.214	290.965	268.564	247.449	232.614	232.877
130.5	569.872	545.095	472.383	377.766	294.978	272.576	251.310	236.285	236.662
131.0	571.740	546.701	475.094	381.202	299.065	276.512	255.056	239.994	240.371
131.5	572.211	548.461	477.804	384.678	303.190	280.410	258.879	243.779	244.118
132.0	575.176	550.106	480.515	388.116	307.240	284.309	262.816	247.526	247.979
132.5	577.160	551.712	483.226	391.553	311.366	288.283	266.638	251.273	251.724
133.0	578.009	553.094	485.936	394.916	315.454	292.182	270.612	254.945	255.473
133.5	579.878	554.360	488.647	398.390	319.428	296.156	274.435	259.184	259.220
134.0	582.580	556.800	491.319	401.904	323.440	300.130	278.371	262.893	263.081
134.5	583.391	558.445	493.651	405.341	327.490	303.991	282.270	266.678	266.789
135.0	585.298	560.885	496.362	408.856	331.540	308.040	286.091	270.501	270.765
135.5	587.661	562.112	499.073	411.914	335.590	312.014	290.029	274.362	274.435
136.0	588.433	563.796	501.667	415.428	339.602	315.989	293.852	278.032	278.297
136.5	591.097	565.479	504.077	418.827	343.576	319.811	297.712	281.856	281.966
137.0	591.150	567.463	506.370	422.302	347.626	323.823	301.610	285.603	285.980
137.5	593.358	569.525	509.120	425.438	351.563	327.837	305.357	289.349	289.765
138.0	594.169	570.791	510.579	428.798	355.535	331.695	309.177	293.095	293.316
138.5	596.493	573.231	512.571	431.895	359.358	335.593	313.077	297.070	297.369

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	597.798	574.158	515.282	435.332	363.294	339.378	316.900	300.817	301.230
139.5	598.871	575.764	517.197	438.351	367.270	343.353	320.723	304.641	305.054
140.0	600.060	577.485	519.568	441.410	371.168	347.137	324.432	308.387	308.839
140.5	602.044	579.207	520.765	444.808	375.105	351.074	328.369	312.324	312.928
141.0	603.194	580.852	522.719	447.828	379.117	354.898	332.267	316.336	316.939
141.5	604.761	581.438	525.429	451.226	383.091	358.758	336.090	320.272	320.838
142.0	605.649	583.539	527.344	454.285	386.876	362.618	339.912	324.208	324.774
142.5	606.838	585.183	529.715	457.305	390.661	366.403	343.696	327.955	328.710
143.0	608.706	586.411	531.630	460.402	394.445	370.264	347.481	331.740	332.608
143.5	610.312	587.337	533.584	463.499	398.609	374.200	351.417	335.752	336.545
144.0	609.609	588.680	535.916	466.596	402.432	378.060	355.201	339.687	340.480
144.5	611.671	590.402	537.870	469.654	406.255	381.693	359.062	343.585	344.416
145.0	613.578	591.707	539.445	472.412	410.040	385.478	362.847	347.370	348.505
145.5	613.670	593.012	542.156	475.509	413.825	389.301	366.631	351.268	352.289
146.0	614.820	593.861	543.692	478.266	417.270	393.086	370.340	355.053	356.188
146.5	616.920	595.583	545.685	480.228	421.054	396.871	374.087	358.913	360.086
147.0	617.769	596.432	547.600	482.946	424.839	400.656	377.985	362.734	364.021
147.5	619.375	598.192	549.214	484.947	428.284	404.518	381.732	366.595	367.806
148.0	619.390	598.362	551.168	487.287	432.069	408.264	385.517	370.455	371.780
148.5	619.521	599.288	552.364	490.384	435.514	411.670	389.340	374.316	375.641
149.0	620.671	601.010	554.318	493.102	439.337	415.115	393.086	378.099	379.576
149.5	621.257	600.422	555.515	495.103	442.743	418.938	396.871	381.771	383.362
150.0	621.612	602.067	557.469	498.239	446.149	422.723	400.656	385.555	387.525
150.5	622.840	602.993	559.839	500.617	449.556	426.168	404.440	389.719	391.310
151.0	622.893	603.919	560.318	503.375	453.000	429.574	407.885	393.465	395.434
151.5	624.159	604.127	562.650	505.715	456.445	433.359	411.670	397.288	399.258
152.0	624.251	604.714	563.507	508.472	459.890	436.804	415.455	401.034	403.382
152.5	623.926	605.640	565.121	510.472	463.296	440.210	419.278	404.819	407.205
153.0	624.018	605.809	566.735	513.230	466.363	443.655	422.646	408.225	410.990
153.5	625.246	606.774	567.932	515.608	468.294	447.061	426.469	412.388	414.775
154.0	624.581	607.361	568.789	518.366	472.079	450.884	429.875	416.134	418.977
154.5	625.430	607.569	569.568	520.366	474.728	453.912	433.660	419.919	422.800
155.0	626.240	608.117	571.105	522.366	477.037	457.396	437.105	423.325	426.546
155.5	625.992	607.985	572.186	524.784	479.725	460.763	440.889	427.110	430.370
156.0	624.910	608.571	572.888	526.746	483.132	464.247	444.334	430.895	434.116
156.5	625.759	609.196	573.668	529.163	485.820	466.139	447.741	434.641	437.522
157.0	626.153	608.987	574.826	531.202	488.886	469.584	451.147	438.047	441.345
157.5	624.414	609.234	575.606	532.785	491.535	472.612	454.970	441.832	445.130
158.0	624.529	608.345	576.501	534.785	494.223	475.639	458.376	445.616	448.915
158.5	623.516	608.592	577.018	536.446	497.251	477.949	461.404	449.023	452.321
159.0	622.472	608.838	577.914	538.446	499.939	480.977	463.675	452.429	456.106
159.5	623.476	609.046	578.431	540.485	502.210	484.383	468.255	456.214	459.512
160.0	622.240	608.837	578.987	542.107	505.276	487.071	470.148	459.620	463.296
160.5	621.351	608.590	579.921	543.389	507.586	490.137	473.593	463.026	466.741
161.0	621.667	608.643	580.477	545.050	509.478	492.787	476.242	465.675	470.487
161.5	620.932	607.260	581.373	546.672	512.506	495.814	478.551	469.082	473.515
162.0	620.430	606.672	580.453	548.332	514.398	498.502	481.958	472.488	474.952
162.5	619.008	605.745	581.766	548.857	517.464	501.569	484.607	475.137	478.281
163.0	618.606	606.370	581.603	550.896	519.395	504.596	488.430	477.786	481.193
163.5	617.902	605.141	581.819	551.761	522.045	506.906	491.079	481.193	484.560
164.0	618.110	605.125	582.375	553.043	523.937	509.177	493.729	484.220	487.549
164.5	616.882	603.935	582.213	553.908	526.247	511.826	497.174	487.665	491.635
165.0	615.692	603.881	582.429	555.190	528.517	514.854	500.201	490.315	494.663
165.5	613.745	601.934	582.305	556.433	530.827	516.785	502.472	492.964	497.312
166.0	613.729	601.200	582.103	557.715	532.719	519.056	505.160	496.370	501.020
166.5	612.879	600.427	582.358	558.997	534.233	521.744	508.149	499.398	504.426

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	611.952	599.654	581.856	558.804	536.164	523.636	511.216	502.086	507.454
167.5	610.306	598.202	581.732	559.746	537.717	525.907	513.108	505.531	510.103
168.0	607.679	597.089	581.608	560.689	539.609	528.216	516.174	508.558	513.169
168.5	607.285	596.200	581.484	561.669	541.501	530.487	519.241	511.625	516.159
169.0	604.998	594.894	580.603	561.098	543.432	532.758	521.095	513.896	518.769
169.5	603.847	593.480	580.479	562.380	544.529	534.272	524.122	517.302	521.001
170.0	602.695	592.028	579.977	562.604	545.665	536.581	526.432	519.573	524.029
170.5	601.583	591.371	578.756	563.206	546.839	538.474	528.363	522.261	526.717
171.0	599.257	589.996	579.050	563.469	547.596	540.366	530.294	524.910	529.027
171.5	597.426	588.620	577.412	563.731	549.527	541.540	532.603	527.637	532.054
172.0	596.430	586.905	577.365	564.334	551.079	543.432	534.874	529.150	534.248
172.5	594.637	585.229	576.145	564.218	552.176	545.325	537.145	532.178	537.237
173.0	592.127	583.854	575.001	564.140	552.971	547.217	539.416	534.449	538.712
173.5	590.790	582.139	574.653	564.820	553.690	547.974	541.308	536.341	541.400
174.0	589.376	580.802	573.132	564.743	554.068	549.866	542.822	538.651	544.011
174.5	587.167	578.369	572.065	564.665	555.242	551.759	544.676	540.922	545.146
175.0	584.957	576.692	570.999	563.870	556.378	552.894	546.190	542.775	547.378
175.5	582.787	575.093	569.972	564.627	557.096	553.612	548.121	544.706	548.892
176.0	582.207	573.533	568.983	564.588	557.892	555.165	549.974	546.637	551.959
176.5	579.055	571.293	568.033	564.248	558.231	555.922	552.284	548.568	553.133
177.0	577.418	569.887	566.403	564.248	558.309	557.057	552.662	550.422	555.025
177.5	574.984	567.763	565.947	563.491	559.027	557.436	554.555	551.936	556.122
178.0	572.705	566.473	565.152	563.491	559.405	558.571	555.651	554.246	559.188
178.5	570.280	564.124	564.016	563.113	559.405	559.707	556.787	555.721	561.042
179.0	568.650	563.329	562.503	563.113	559.784	560.085	558.718	557.235	561.799
179.5	567.098	561.854	561.746	562.356	559.784	560.842	559.475	558.409	564.865
180.0	561.213	561.213	561.213	561.213	561.213	561.213	561.213	561.213	561.213

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	208.36	N.A.	5.50
0-30	442.62	N.A.	11.70
0-40	726.05	N.A.	19.20
0-60	1315.05	N.A.	34.70
0-80	1761.24	N.A.	46.50
0-90	1901.4	N.A.	50.20
10-90	1847.57	N.A.	48.80
20-40	517.69	N.A.	13.70
20-50	818.22	N.A.	21.60
40-70	839.77	N.A.	22.20
60-80	446.19	N.A.	11.80
70-80	195.41	N.A.	5.20
80-90	140.16	N.A.	3.70
90-110	334.31	N.A.	8.80
90-120	583.32	N.A.	15.40
90-130	869.75	N.A.	23.00
90-150	1448.87	N.A.	38.20
90-180	1886.57	N.A.	49.80
110-180	1552.25	N.A.	41.00
0-180	3787.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.83
10-20	154.54
20-30	234.25
30-40	283.44
40-50	300.53
50-60	288.46
60-70	250.78
70-80	195.41
80-90	140.16
90-100	139.95
100-110	194.36
110-120	249.01
120-130	286.43
130-140	298.24
140-150	280.88
150-160	231.76
160-170	152.72
170-180	53.22

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L19-830U-L19-830D-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-L19-830U-L19-830D-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

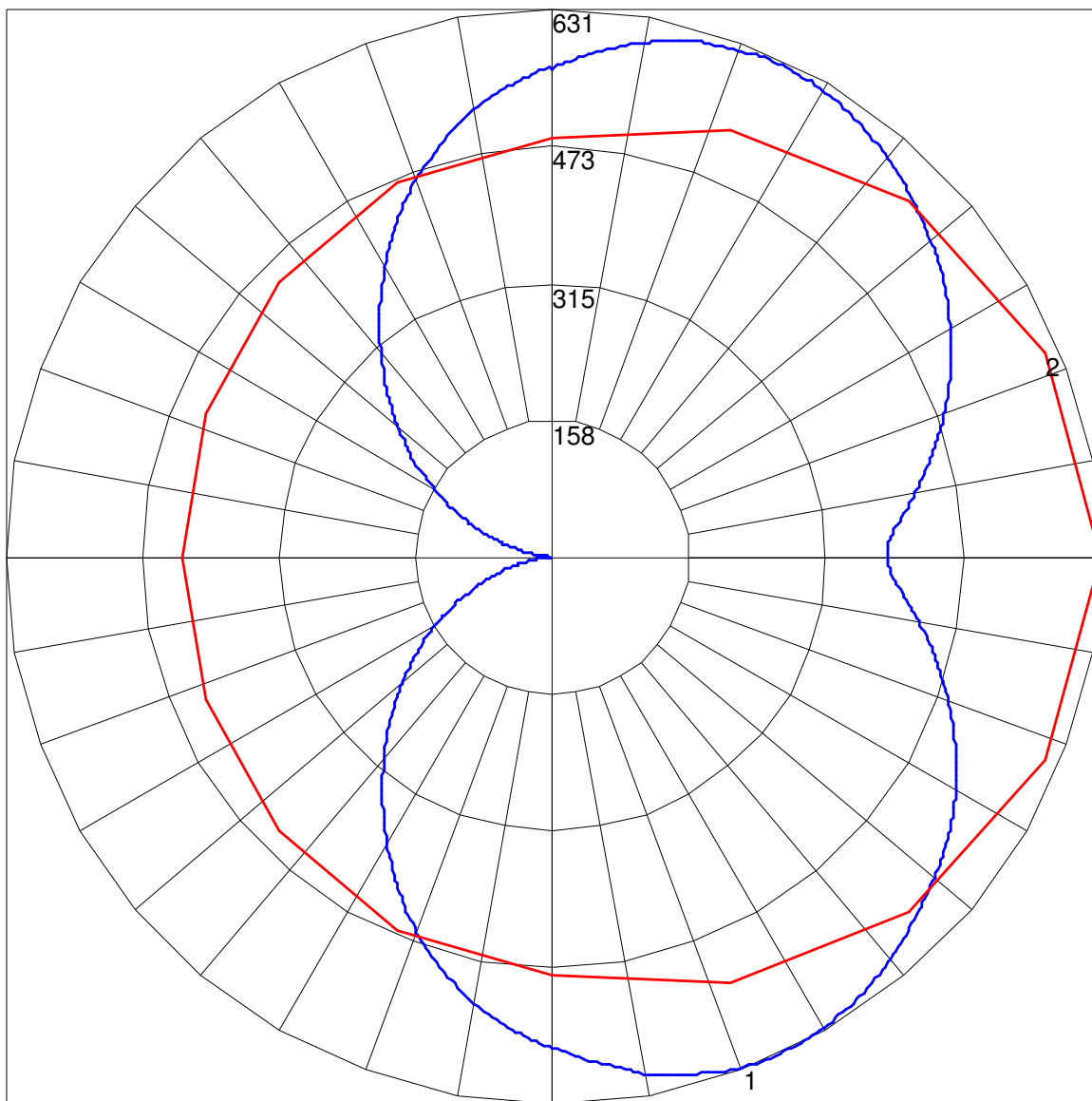
X=2H	Y=2H	19.3	20.2	20.3	21.2	22.5	13.4	14.3	14.3	15.3	16.5
	3H	22.4	23.2	23.4	24.2	25.5	14.7	15.6	15.7	16.5	17.8
	4H	24.0	24.8	25.0	25.8	27.0	15.2	15.9	16.1	16.9	18.2
	6H	25.7	26.4	26.6	27.4	28.7	15.4	16.1	16.4	17.1	18.4
	8H	26.5	27.2	27.5	28.2	29.6	15.5	16.1	16.4	17.2	18.5
	12H	27.5	28.2	28.5	29.2	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 = 630.695 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.)