



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH4UD-L50-835U-L50-835D-DMW-WHT-NL-DIM-UNV NL ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4792073931.04
[TESTLAB] UL, LLC
[ISSUE DATE] 1/6/2026
[TEST DATE] 1/2/2026
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-L50/835U/L50/835D-DMA-WHT-NL-DIM-UNV (NL ONLY)
[LUMINAIRE] 4' wall mounted fixture with both up and down lighting com
[MORE] partments
[LAMP] (1) 28 LED board - 28 Total LED
[BALLAST] ERP PHB30W-0500-42
[OTHER] 24.5 C, 120.035 V, 0.105032 A, 12.2973 W, 0.975398 PF, 59.9996
[MORE] Hz
[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	112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	9
Total Luminaire Watts	12.2973
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)	3.67 ft
Luminous Height	0.52 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	87	88	123
55	82	82	108
65	78	78	91
75	75	75	68
85	75	74	36

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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	10.730	10.730	10.730	10.730	10.730	10.730	10.730	10.730	10.730
0.5	10.540	10.720	10.750	10.730	10.640	10.680	10.680	10.680	10.620
1.0	10.820	10.810	10.820	10.790	10.770	10.750	10.760	10.850	10.660
1.5	10.690	10.760	10.770	10.780	10.640	10.780	10.710	10.740	10.650
2.0	10.580	10.840	10.800	10.720	10.700	10.760	10.730	10.750	10.690
2.5	10.790	10.870	10.820	10.800	10.740	10.760	10.750	10.780	10.720
3.0	10.670	10.920	10.880	10.780	10.690	10.750	10.720	10.740	10.730
3.5	10.810	11.010	10.910	10.780	10.720	10.680	10.760	10.780	10.710
4.0	10.950	11.100	10.960	10.780	10.670	10.730	10.790	10.780	10.740
4.5	10.990	11.180	10.990	10.790	10.680	10.740	10.760	10.770	10.700
5.0	11.120	11.230	11.080	10.790	10.660	10.720	10.740	10.770	10.720
5.5	11.190	11.360	11.150	10.810	10.660	10.690	10.720	10.780	10.720
6.0	11.280	11.350	11.200	10.830	10.620	10.690	10.730	10.770	10.680
6.5	11.320	11.450	11.240	10.850	10.610	10.680	10.710	10.740	10.640
7.0	11.380	11.460	11.270	10.840	10.590	10.660	10.710	10.720	10.680
7.5	11.430	11.520	11.300	10.880	10.570	10.640	10.680	10.730	10.660
8.0	11.520	11.570	11.370	10.870	10.560	10.620	10.650	10.710	10.640
8.5	11.550	11.640	11.350	10.920	10.520	10.600	10.630	10.700	10.590
9.0	11.590	11.660	11.410	10.930	10.490	10.590	10.630	10.680	10.600
9.5	11.700	11.740	11.410	10.940	10.460	10.550	10.600	10.660	10.570
10.0	11.730	11.790	11.460	10.960	10.460	10.520	10.570	10.620	10.540
10.5	11.770	11.850	11.470	10.960	10.420	10.520	10.560	10.590	10.520
11.0	11.870	11.880	11.490	10.950	10.390	10.470	10.520	10.540	10.500
11.5	11.850	11.860	11.500	10.930	10.340	10.440	10.460	10.540	10.460
12.0	11.930	12.010	11.600	11.000	10.350	10.430	10.500	10.520	10.430
12.5	12.030	12.060	11.590	10.960	10.320	10.420	10.460	10.480	10.400
13.0	12.170	12.100	11.620	11.000	10.250	10.360	10.400	10.450	10.350
13.5	12.150	12.140	11.640	10.960	10.260	10.340	10.400	10.420	10.320
14.0	12.220	12.190	11.680	10.980	10.210	10.310	10.350	10.370	10.250
14.5	12.280	12.240	11.680	10.950	10.170	10.260	10.330	10.350	10.220
15.0	12.370	12.280	11.730	10.970	10.150	10.250	10.300	10.300	10.200
15.5	12.410	12.350	11.750	10.950	10.100	10.190	10.260	10.250	10.140
16.0	12.450	12.360	11.790	10.900	10.050	10.170	10.190	10.210	10.110
16.5	12.530	12.440	11.780	10.910	10.020	10.110	10.170	10.180	10.050
17.0	12.590	12.500	11.820	10.900	9.976	10.100	10.120	10.130	10.010
17.5	12.650	12.550	11.830	10.890	9.936	10.030	10.080	10.060	9.955
18.0	12.710	12.600	11.830	10.900	9.880	9.998	10.020	10.010	9.908
18.5	12.760	12.640	11.890	10.830	9.854	9.954	9.970	9.976	9.833
19.0	12.820	12.700	11.900	10.830	9.800	9.915	9.954	9.946	9.795
19.5	12.890	12.740	11.920	10.830	9.749	9.862	9.898	9.874	9.718
20.0	12.960	12.770	11.960	10.790	9.711	9.822	9.839	9.826	9.677
20.5	12.980	12.830	11.950	10.790	9.639	9.748	9.782	9.754	9.611
21.0	13.040	12.850	11.980	10.740	9.585	9.719	9.719	9.692	9.584
21.5	13.100	12.930	11.970	10.710	9.549	9.641	9.668	9.643	9.538
22.0	13.160	12.960	12.050	10.710	9.517	9.618	9.634	9.602	9.451
22.5	13.190	13.010	12.030	10.720	9.433	9.544	9.570	9.523	9.346
23.0	13.270	13.040	12.050	10.660	9.378	9.473	9.499	9.460	9.265
23.5	13.350	13.080	12.070	10.630	9.317	9.433	9.431	9.378	9.211
24.0	13.380	13.110	12.050	10.590	9.264	9.353	9.370	9.323	9.149
24.5	13.410	13.150	12.090	10.590	9.227	9.314	9.333	9.273	9.085
25.0	13.470	13.200	12.090	10.560	9.153	9.276	9.245	9.187	9.019
25.5	13.530	13.220	12.110	10.550	9.104	9.193	9.179	9.129	8.948
26.0	13.570	13.280	12.120	10.510	9.021	9.141	9.129	9.064	8.877
26.5	13.600	13.300	12.100	10.470	8.984	9.073	9.068	9.000	8.804

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CANDELA TABULATION - (Cont.)

27.0	13.670	13.360	12.140	10.460	8.896	9.002	9.023	8.922	8.731
27.5	13.700	13.370	12.160	10.420	8.865	8.953	8.936	8.852	8.696
28.0	13.780	13.420	12.150	10.380	8.798	8.880	8.875	8.800	8.628
28.5	13.840	13.470	12.190	10.370	8.727	8.839	8.796	8.715	8.557
29.0	13.870	13.490	12.190	10.320	8.673	8.773	8.748	8.658	8.501
29.5	13.900	13.550	12.190	10.310	8.626	8.695	8.669	8.584	8.421
30.0	13.920	13.570	12.190	10.290	8.536	8.626	8.594	8.494	8.309
30.5	13.970	13.600	12.210	10.240	8.476	8.524	8.507	8.418	8.228
31.0	14.030	13.640	12.190	10.220	8.388	8.469	8.435	8.342	8.189
31.5	14.040	13.660	12.230	10.150	8.325	8.414	8.366	8.265	8.124
32.0	14.090	13.670	12.240	10.140	8.273	8.361	8.315	8.206	8.068
32.5	14.120	13.720	12.230	10.130	8.217	8.308	8.241	8.118	7.951
33.0	14.190	13.790	12.260	10.080	8.145	8.201	8.157	8.029	7.833
33.5	14.240	13.790	12.220	10.050	8.050	8.102	8.063	7.940	7.755
34.0	14.260	13.830	12.230	9.961	7.974	8.048	7.994	7.881	7.738
34.5	14.290	13.870	12.250	9.936	7.925	7.998	7.944	7.819	7.674
35.0	14.290	13.900	12.260	9.938	7.873	7.938	7.872	7.746	7.590
35.5	14.370	13.910	12.280	9.901	7.806	7.847	7.789	7.646	7.516
36.0	14.410	13.950	12.240	9.871	7.717	7.775	7.723	7.583	7.427
36.5	14.430	13.970	12.220	9.826	7.641	7.694	7.617	7.472	7.326
37.0	14.470	13.960	12.270	9.793	7.571	7.611	7.543	7.421	7.238
37.5	14.520	14.000	12.260	9.738	7.493	7.552	7.477	7.333	7.173
38.0	14.540	14.000	12.270	9.709	7.424	7.463	7.403	7.233	7.105
38.5	14.570	14.040	12.270	9.690	7.352	7.364	7.303	7.173	6.995
39.0	14.610	14.090	12.210	9.620	7.262	7.315	7.219	7.074	6.947
39.5	14.640	14.060	12.230	9.589	7.201	7.249	7.130	7.011	6.817
40.0	14.670	14.110	12.250	9.535	7.134	7.149	7.084	6.927	6.778
40.5	14.680	14.100	12.260	9.498	7.054	7.097	6.988	6.835	6.687
41.0	14.710	14.110	12.250	9.452	6.975	6.993	6.903	6.765	6.586
41.5	14.720	14.130	12.230	9.422	6.906	6.936	6.818	6.685	6.533
42.0	14.760	14.160	12.240	9.398	6.821	6.832	6.743	6.600	6.448
42.5	14.810	14.160	12.210	9.328	6.740	6.772	6.665	6.523	6.367
43.0	14.780	14.160	12.200	9.291	6.661	6.692	6.575	6.448	6.254
43.5	14.840	14.220	12.240	9.267	6.601	6.611	6.495	6.346	6.201
44.0	14.830	14.250	12.220	9.212	6.522	6.523	6.421	6.287	6.076
44.5	14.830	14.220	12.220	9.167	6.460	6.465	6.355	6.174	6.033
45.0	14.890	14.250	12.190	9.104	6.389	6.412	6.288	6.106	5.939
45.5	14.900	14.250	12.200	9.066	6.295	6.301	6.183	6.010	5.859
46.0	14.910	14.270	12.140	9.074	6.201	6.171	6.056	5.950	5.741
46.5	14.890	14.240	12.150	8.989	6.141	6.146	6.025	5.838	5.677
47.0	14.890	14.260	12.150	8.948	6.051	6.086	5.957	5.744	5.641
47.5	14.930	14.250	12.120	8.899	5.971	5.936	5.803	5.714	5.450
48.0	14.910	14.250	12.120	8.870	5.888	5.906	5.781	5.548	5.468
48.5	14.910	14.270	12.060	8.794	5.818	5.797	5.645	5.540	5.307
49.0	14.930	14.260	12.100	8.761	5.750	5.720	5.559	5.385	5.244
49.5	14.950	14.300	12.100	8.705	5.650	5.636	5.545	5.350	5.164
50.0	14.970	14.220	12.090	8.659	5.574	5.526	5.389	5.231	5.082
50.5	14.970	14.260	12.030	8.624	5.501	5.479	5.305	5.163	4.955
51.0	14.940	14.210	12.020	8.563	5.423	5.358	5.270	5.079	4.899
51.5	14.950	14.250	12.000	8.529	5.342	5.301	5.158	4.977	4.830
52.0	14.970	14.240	11.990	8.441	5.260	5.209	5.035	4.904	4.735
52.5	14.940	14.260	12.000	8.431	5.182	5.140	4.988	4.836	4.648
53.0	14.960	14.240	11.960	8.365	5.109	5.044	4.897	4.744	4.562
53.5	14.950	14.230	11.940	8.328	5.017	4.960	4.814	4.647	4.478
54.0	14.950	14.230	11.900	8.276	4.937	4.877	4.724	4.556	4.397
54.5	14.910	14.240	11.910	8.234	4.868	4.788	4.636	4.485	4.303

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CANDELA TABULATION - (Cont.)

55.0	14.950	14.230	11.890	8.183	4.783	4.712	4.542	4.400	4.212
55.5	14.930	14.200	11.860	8.121	4.699	4.631	4.475	4.316	4.140
56.0	14.930	14.180	11.860	8.078	4.632	4.544	4.392	4.226	4.057
56.5	14.940	14.170	11.820	8.033	4.551	4.465	4.310	4.142	3.971
57.0	14.880	14.160	11.810	7.983	4.473	4.390	4.218	4.067	3.900
57.5	14.940	14.180	11.770	7.934	4.399	4.296	4.142	3.984	3.820
58.0	14.930	14.160	11.770	7.897	4.309	4.218	4.056	3.908	3.726
58.5	14.920	14.150	11.730	7.835	4.239	4.146	3.975	3.824	3.621
59.0	14.920	14.130	11.720	7.787	4.156	4.064	3.904	3.749	3.576
59.5	14.890	14.110	11.710	7.748	4.091	3.985	3.831	3.662	3.499
60.0	14.880	14.110	11.660	7.709	4.007	3.905	3.740	3.586	3.425
60.5	14.870	14.110	11.660	7.661	3.931	3.827	3.667	3.508	3.337
61.0	14.860	14.090	11.640	7.600	3.852	3.732	3.568	3.412	3.257
61.5	14.820	14.060	11.600	7.551	3.771	3.656	3.491	3.347	3.170
62.0	14.840	14.050	11.590	7.502	3.701	3.570	3.412	3.254	3.117
62.5	14.810	14.040	11.530	7.451	3.615	3.493	3.329	3.181	3.042
63.0	14.790	14.030	11.520	7.408	3.532	3.410	3.257	3.108	2.941
63.5	14.760	14.000	11.490	7.361	3.460	3.350	3.165	3.033	2.876
64.0	14.750	13.970	11.460	7.298	3.383	3.262	3.087	2.946	2.794
64.5	14.760	13.950	11.430	7.248	3.304	3.169	3.008	2.878	2.723
65.0	14.700	13.940	11.420	7.203	3.234	3.100	2.931	2.798	2.657
65.5	14.660	13.910	11.390	7.148	3.148	3.021	2.843	2.717	2.572
66.0	14.660	13.880	11.350	7.104	3.075	2.945	2.773	2.649	2.484
66.5	14.630	13.880	11.310	7.057	2.997	2.855	2.690	2.567	2.421
67.0	14.630	13.860	11.290	6.999	2.922	2.789	2.602	2.495	2.347
67.5	14.600	13.830	11.290	6.939	2.841	2.709	2.536	2.425	2.267
68.0	14.560	13.780	11.230	6.897	2.764	2.625	2.458	2.356	2.196
68.5	14.510	13.750	11.190	6.849	2.691	2.549	2.376	2.279	2.134
69.0	14.500	13.750	11.160	6.785	2.610	2.460	2.293	2.217	2.045
69.5	14.460	13.710	11.140	6.741	2.547	2.388	2.218	2.130	1.975
70.0	14.460	13.680	11.110	6.676	2.461	2.300	2.161	2.058	1.896
70.5	14.420	13.650	11.070	6.639	2.384	2.236	2.087	1.988	1.815
71.0	14.390	13.630	11.050	6.573	2.305	2.150	2.014	1.903	1.757
71.5	14.350	13.620	11.000	6.525	2.257	2.076	1.944	1.839	1.686
72.0	14.340	13.580	10.940	6.480	2.165	2.017	1.878	1.762	1.685
72.5	14.310	13.560	10.950	6.430	2.090	1.938	1.809	1.683	1.706
73.0	14.270	13.520	10.910	6.371	2.013	1.857	1.734	1.611	1.673
73.5	14.270	13.480	10.900	6.324	1.945	1.775	1.667	1.548	1.618
74.0	14.190	13.450	10.850	6.280	1.867	1.710	1.595	1.476	1.559
74.5	14.150	13.430	10.810	6.220	1.796	1.630	1.533	1.395	1.453
75.0	14.160	13.420	10.790	6.184	1.734	1.565	1.451	1.337	1.341
75.5	14.120	13.390	10.760	6.125	1.659	1.492	1.400	1.268	1.203
76.0	14.100	13.360	10.710	6.069	1.589	1.439	1.318	1.199	1.095
76.5	14.080	13.300	10.700	6.034	1.519	1.363	1.256	1.132	1.019
77.0	14.020	13.320	10.650	5.980	1.466	1.306	1.178	1.076	0.968
77.5	14.000	13.310	10.610	5.941	1.382	1.268	1.130	1.007	0.922
78.0	13.990	13.270	10.580	5.893	1.318	1.234	1.051	0.956	0.850
78.5	13.950	13.210	10.590	5.838	1.259	1.180	0.992	0.880	0.783
79.0	13.940	13.190	10.530	5.799	1.196	1.128	0.931	0.837	0.718
79.5	13.870	13.170	10.500	5.754	1.116	1.072	0.873	0.768	0.650
80.0	13.880	13.140	10.470	5.737	1.072	1.024	0.815	0.709	0.619
80.5	13.820	13.140	10.430	5.660	1.016	0.972	0.754	0.659	0.573
81.0	13.820	13.110	10.410	5.636	0.958	0.915	0.700	0.611	0.506
81.5	13.760	13.080	10.380	5.590	0.891	0.830	0.646	0.550	0.472
82.0	13.750	13.010	10.350	5.552	0.827	0.737	0.594	0.497	0.412
82.5	13.720	13.010	10.330	5.503	0.787	0.685	0.551	0.459	0.386

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CANDELA TABULATION - (Cont.)

83.0	13.680	12.980	10.290	5.469	0.739	0.620	0.498	0.390	0.312
83.5	13.680	12.970	10.280	5.444	0.679	0.578	0.444	0.343	0.237
84.0	13.670	12.940	10.240	5.409	0.641	0.577	0.398	0.286	0.224
84.5	13.640	12.930	10.220	5.373	0.586	0.540	0.345	0.229	0.251
85.0	13.630	12.900	10.210	5.344	0.528	0.453	0.287	0.189	0.250
85.5	13.610	12.890	10.160	5.315	0.491	0.388	0.226	0.154	0.239
86.0	13.600	12.870	10.150	5.278	0.448	0.340	0.196	0.118	0.242
86.5	13.560	12.860	10.110	5.246	0.404	0.292	0.182	0.149	0.205
87.0	13.550	12.820	10.100	5.219	0.364	0.258	0.161	0.152	0.176
87.5	13.520	12.830	10.080	5.190	0.325	0.208	0.166	0.138	0.138
88.0	13.500	12.800	10.060	5.151	0.274	0.179	0.160	0.140	0.122
88.5	13.480	12.800	10.040	5.126	0.234	0.203	0.158	0.144	0.127
89.0	13.490	12.780	10.020	5.092	0.197	0.213	0.160	0.130	0.136
89.5	13.490	12.800	10.010	5.071	0.169	0.211	0.152	0.135	0.128
90.0	13.620	12.900	10.080	5.059	0.131	0.227	0.273	0.263	0.242
90.5	13.650	12.960	10.130	5.090	0.145	0.234	0.261	0.261	0.245
91.0	13.720	13.010	10.170	5.147	0.210	0.242	0.254	0.273	0.264
91.5	13.770	13.050	10.220	5.220	0.281	0.243	0.265	0.261	0.244
92.0	13.820	13.090	10.280	5.277	0.344	0.271	0.261	0.275	0.238
92.5	13.860	13.170	10.350	5.365	0.415	0.365	0.274	0.261	0.248
93.0	13.920	13.250	10.410	5.414	0.473	0.425	0.312	0.268	0.251
93.5	14.030	13.310	10.490	5.487	0.564	0.506	0.396	0.291	0.272
94.0	14.100	13.400	10.560	5.552	0.618	0.564	0.483	0.368	0.321
94.5	14.180	13.490	10.630	5.629	0.707	0.634	0.563	0.456	0.428
95.0	14.290	13.560	10.730	5.693	0.772	0.713	0.637	0.548	0.515
95.5	14.330	13.640	10.790	5.777	0.850	0.808	0.700	0.626	0.608
96.0	14.450	13.710	10.870	5.841	0.924	0.877	0.797	0.718	0.688
96.5	14.530	13.810	10.950	5.932	1.020	0.953	0.875	0.790	0.774
97.0	14.630	13.890	11.030	6.014	1.106	1.034	0.973	0.893	0.871
97.5	14.720	13.980	11.110	6.096	1.199	1.121	1.053	0.975	0.971
98.0	14.820	14.090	11.210	6.168	1.275	1.207	1.127	1.061	1.051
98.5	14.900	14.180	11.290	6.261	1.372	1.304	1.230	1.155	1.136
99.0	14.970	14.270	11.370	6.353	1.459	1.388	1.327	1.263	1.225
99.5	15.090	14.360	11.460	6.435	1.552	1.483	1.416	1.345	1.322
100.0	15.160	14.430	11.540	6.534	1.652	1.569	1.542	1.439	1.423
100.5	15.220	14.530	11.620	6.622	1.755	1.669	1.621	1.534	1.514
101.0	15.390	14.630	11.710	6.711	1.850	1.760	1.732	1.634	1.612
101.5	15.470	14.720	11.810	6.805	1.947	1.857	1.845	1.736	1.711
102.0	15.540	14.820	11.900	6.891	2.053	1.963	1.920	1.847	1.823
102.5	15.650	14.890	12.000	6.994	2.154	2.067	2.025	1.963	1.925
103.0	15.700	15.020	12.070	7.094	2.265	2.166	2.148	2.077	2.026
103.5	15.860	15.110	12.170	7.183	2.375	2.280	2.253	2.191	2.159
104.0	15.940	15.200	12.240	7.275	2.501	2.392	2.369	2.301	2.290
104.5	16.040	15.270	12.340	7.383	2.593	2.502	2.484	2.404	2.399
105.0	16.120	15.360	12.440	7.476	2.713	2.625	2.603	2.514	2.526
105.5	16.180	15.460	12.510	7.585	2.826	2.730	2.706	2.614	2.653
106.0	16.310	15.550	12.600	7.675	2.941	2.857	2.830	2.720	2.761
106.5	16.410	15.670	12.680	7.779	3.055	2.973	2.952	2.838	2.866
107.0	16.490	15.750	12.790	7.870	3.175	3.087	3.060	2.949	2.984
107.5	16.560	15.830	12.880	7.973	3.293	3.206	3.183	3.070	3.095
108.0	16.690	15.920	12.960	8.080	3.429	3.325	3.306	3.192	3.213
108.5	16.770	16.010	13.060	8.177	3.533	3.442	3.409	3.309	3.337
109.0	16.890	16.110	13.140	8.277	3.652	3.572	3.511	3.433	3.467
109.5	16.980	16.200	13.250	8.388	3.781	3.690	3.628	3.554	3.588
110.0	17.060	16.280	13.320	8.478	3.903	3.817	3.724	3.683	3.680
110.5	17.130	16.370	13.420	8.581	4.025	3.944	3.848	3.810	3.826

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH4UD-L50-835U-L50-835D-DMW-WHT-NL-DIM-UNV NL ONLY_.IES****CANDELA TABULATION - (Cont.)**

111.0	17.260	16.470	13.500	8.675	4.145	4.073	3.958	3.918	3.950
111.5	17.350	16.530	13.580	8.773	4.272	4.176	4.080	4.048	4.076
112.0	17.440	16.640	13.660	8.890	4.391	4.312	4.209	4.179	4.197
112.5	17.550	16.730	13.760	8.976	4.508	4.444	4.348	4.310	4.339
113.0	17.600	16.810	13.850	9.086	4.642	4.566	4.465	4.426	4.463
113.5	17.700	16.900	13.940	9.194	4.755	4.698	4.587	4.554	4.585
114.0	17.790	16.960	14.040	9.287	4.883	4.820	4.719	4.666	4.709
114.5	17.910	17.070	14.120	9.400	5.012	4.952	4.853	4.779	4.823
115.0	17.960	17.180	14.210	9.499	5.134	5.071	4.968	4.892	4.979
115.5	18.040	17.230	14.280	9.601	5.270	5.214	5.088	5.012	5.092
116.0	18.140	17.280	14.370	9.695	5.411	5.344	5.227	5.130	5.246
116.5	18.240	17.380	14.460	9.787	5.474	5.406	5.266	5.232	5.269
117.0	18.330	17.460	14.580	9.923	5.687	5.693	5.631	5.406	5.448
117.5	18.410	17.600	14.630	10.010	5.772	5.745	5.606	5.520	5.541
118.0	18.490	17.670	14.690	10.090	5.901	5.861	5.734	5.634	5.647
118.5	18.590	17.770	14.790	10.210	6.039	5.990	5.923	5.782	5.797
119.0	18.670	17.780	14.900	10.350	6.187	6.155	5.988	5.965	5.997
119.5	18.670	17.780	14.910	10.390	6.252	6.236	6.135	5.992	6.047
120.0	18.750	17.870	14.980	10.490	6.372	6.380	6.275	6.140	6.207
120.5	18.840	18.040	15.110	10.630	6.560	6.526	6.400	6.287	6.326
121.0	18.920	18.130	15.120	10.700	6.684	6.636	6.576	6.473	6.510
121.5	18.960	18.180	15.240	10.820	6.805	6.756	6.652	6.559	6.579
122.0	19.080	18.200	15.300	10.930	6.929	6.920	6.807	6.715	6.707
122.5	19.120	18.240	15.390	11.000	7.049	7.024	6.926	6.815	6.843
123.0	19.160	18.340	15.450	11.080	7.169	7.160	7.071	6.951	7.004
123.5	19.250	18.390	15.520	11.160	7.296	7.305	7.219	7.071	7.112
124.0	19.320	18.500	15.610	11.280	7.425	7.434	7.340	7.230	7.241
124.5	19.350	18.520	15.670	11.380	7.544	7.551	7.474	7.339	7.379
125.0	19.390	18.550	15.760	11.460	7.674	7.691	7.620	7.477	7.482
125.5	19.460	18.600	15.790	11.560	7.821	7.839	7.737	7.616	7.626
126.0	19.530	18.660	15.870	11.630	7.931	7.951	7.881	7.749	7.759
126.5	19.580	18.720	15.930	11.770	8.069	8.097	8.012	7.862	7.876
127.0	19.640	18.790	15.990	11.830	8.184	8.216	8.128	7.985	8.011
127.5	19.690	18.820	16.060	11.900	8.305	8.315	8.269	8.142	8.111
128.0	19.700	18.870	16.070	12.070	8.434	8.493	8.400	8.262	8.288
128.5	19.740	18.920	16.190	12.080	8.560	8.559	8.528	8.347	8.264
129.0	19.800	18.920	16.180	12.210	8.656	8.771	8.700	8.597	8.597
129.5	19.880	19.040	16.330	12.310	8.816	8.859	8.799	8.659	8.601
130.0	19.900	19.030	16.320	12.370	8.950	8.957	8.940	8.734	8.850
130.5	19.950	19.170	16.460	12.470	9.013	9.204	9.090	8.958	8.939
131.0	19.980	19.070	16.540	12.530	9.172	9.144	9.137	9.079	9.010
131.5	20.000	19.230	16.550	12.680	9.377	9.442	9.319	9.205	9.213
132.0	20.030	19.080	16.530	12.770	9.430	9.537	9.534	9.331	9.326
132.5	20.080	19.220	16.510	12.700	9.463	9.497	9.468	9.305	9.152
133.0	20.120	19.350	16.710	12.860	9.689	9.777	9.666	9.564	9.484
133.5	20.120	19.430	16.810	13.030	9.905	10.020	9.915	9.781	9.800
134.0	20.170	19.330	16.940	13.230	10.050	10.160	10.130	9.969	10.100
134.5	20.200	19.120	16.510	13.260	9.934	9.977	10.200	9.799	10.070
135.0	20.220	19.290	16.760	13.050	9.954	10.160	10.020	9.923	9.628
135.5	20.250	19.360	16.830	13.270	10.200	10.320	10.260	10.110	9.926
136.0	20.300	19.480	16.960	13.390	10.370	10.520	10.450	10.310	10.220
136.5	20.320	19.490	17.010	13.510	10.530	10.680	10.630	10.480	10.480
137.0	20.320	19.540	17.090	13.620	10.680	10.820	10.780	10.650	10.640
137.5	20.320	19.540	17.140	13.710	10.800	10.960	10.910	10.790	10.830
138.0	20.360	19.570	17.200	13.800	10.970	11.100	11.060	10.930	10.950
138.5	20.380	19.610	17.260	13.910	11.090	11.230	11.210	11.070	11.080

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH4UD-L50-835U-L50-835D-DMW-WHT-NL-DIM-UNV NL ONLY_.IES****CANDELA TABULATION - (Cont.)**

139.0	20.390	19.640	17.330	13.990	11.240	11.360	11.340	11.200	11.220
139.5	20.390	19.660	17.370	14.070	11.360	11.500	11.470	11.350	11.350
140.0	20.410	19.700	17.380	14.180	11.470	11.610	11.590	11.450	11.470
140.5	20.400	19.670	17.420	14.240	11.600	11.750	11.720	11.610	11.610
141.0	20.430	19.670	17.450	14.310	11.700	11.860	11.830	11.700	11.760
141.5	20.450	19.660	17.490	14.390	11.820	11.990	11.960	11.850	11.900
142.0	20.450	19.720	17.560	14.490	11.960	12.130	12.080	11.960	12.010
142.5	20.460	19.760	17.570	14.570	12.050	12.240	12.220	12.140	12.100
143.0	20.450	19.730	17.600	14.660	12.200	12.380	12.320	12.230	12.220
143.5	20.440	19.720	17.580	14.710	12.280	12.440	12.490	12.350	12.380
144.0	20.410	19.710	17.670	14.790	12.410	12.600	12.580	12.460	12.460
144.5	20.460	19.720	17.660	14.860	12.530	12.720	12.690	12.590	12.610
145.0	20.470	19.760	17.720	14.980	12.660	12.820	12.840	12.730	12.700
145.5	20.440	19.770	17.780	15.030	12.770	12.970	12.950	12.850	12.900
146.0	20.450	19.770	17.810	15.100	12.910	13.080	13.110	13.000	13.030
146.5	20.410	19.740	17.830	15.200	12.990	13.230	13.220	13.140	13.170
147.0	20.400	19.720	17.850	15.290	13.140	13.330	13.340	13.250	13.270
147.5	20.390	19.720	17.880	15.340	13.240	13.420	13.460	13.370	13.360
148.0	20.410	19.720	17.900	15.410	13.330	13.520	13.570	13.460	13.410
148.5	20.370	19.730	17.910	15.460	13.450	13.620	13.650	13.590	13.550
149.0	20.360	19.710	17.950	15.530	13.560	13.740	13.780	13.720	13.670
149.5	20.310	19.690	17.960	15.560	13.650	13.860	13.870	13.820	13.820
150.0	20.300	19.660	17.990	15.660	13.760	13.990	14.020	13.940	14.000
150.5	20.310	19.670	18.010	15.750	13.880	14.090	14.120	14.100	14.100
151.0	20.290	19.670	18.050	15.810	13.980	14.210	14.240	14.190	14.230
151.5	20.260	19.680	18.090	15.910	14.100	14.310	14.370	14.320	14.300
152.0	20.220	19.680	18.080	15.960	14.190	14.460	14.480	14.440	14.430
152.5	20.160	19.640	18.050	16.010	14.260	14.520	14.600	14.550	14.530
153.0	20.140	19.590	18.080	16.050	14.390	14.630	14.670	14.650	14.610
153.5	20.100	19.560	18.050	16.100	14.460	14.700	14.770	14.720	14.690
154.0	20.060	19.520	18.090	16.180	14.600	14.810	14.860	14.860	14.930
154.5	20.070	19.490	18.150	16.250	14.680	14.920	14.990	14.910	14.950
155.0	20.020	19.550	18.130	16.310	14.770	15.020	15.070	15.050	15.070
155.5	19.970	19.520	18.170	16.380	14.850	15.120	15.200	15.180	15.130
156.0	19.930	19.470	18.160	16.430	14.960	15.190	15.310	15.270	15.310
156.5	19.890	19.440	18.190	16.500	15.070	15.310	15.380	15.410	15.450
157.0	19.870	19.420	18.190	16.540	15.160	15.400	15.500	15.490	15.510
157.5	19.840	19.380	18.140	16.590	15.240	15.480	15.570	15.590	15.570
158.0	19.820	19.370	18.160	16.620	15.300	15.540	15.610	15.640	15.620
158.5	19.770	19.350	18.130	16.660	15.400	15.630	15.710	15.710	15.780
159.0	19.710	19.340	18.230	16.720	15.500	15.750	15.820	15.830	15.940
159.5	19.670	19.310	18.250	16.800	15.610	15.840	15.940	15.990	16.080
160.0	19.640	19.280	18.240	16.850	15.720	15.970	16.000	16.070	16.170
160.5	19.600	19.250	18.230	16.930	15.780	16.040	16.120	16.170	16.170
161.0	19.560	19.230	18.220	16.950	15.850	16.100	16.140	16.230	16.220
161.5	19.520	19.190	18.210	16.990	15.920	16.140	16.230	16.260	16.280
162.0	19.490	19.150	18.220	17.030	16.010	16.200	16.300	16.380	16.390
162.5	19.430	19.100	18.190	17.040	16.060	16.270	16.390	16.460	16.460
163.0	19.370	19.020	18.180	17.060	16.140	16.340	16.460	16.510	16.560
163.5	19.320	18.950	18.140	17.060	16.180	16.390	16.510	16.560	16.620
164.0	19.260	18.940	18.150	17.110	16.220	16.460	16.590	16.610	16.640
164.5	19.240	18.930	18.160	17.170	16.310	16.510	16.600	16.670	16.660
165.0	19.170	18.910	18.160	17.210	16.390	16.600	16.650	16.740	16.720
165.5	19.110	18.830	18.140	17.230	16.460	16.670	16.750	16.830	16.880
166.0	19.030	18.760	18.060	17.210	16.480	16.680	16.830	16.900	16.970
166.5	19.000	18.710	18.060	17.230	16.510	16.700	16.870	16.930	17.000

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH4UD-L50-835U-L50-835D-DMW-WHT-NL-DIM-UNV NL ONLY_.IES

CANDELA TABULATION - (Cont.)

167.0	18.970	18.700	18.080	17.300	16.580	16.770	16.870	16.980	17.000
167.5	18.940	18.730	18.150	17.360	16.700	16.900	16.910	17.020	17.010
168.0	18.870	18.670	18.100	17.400	16.750	16.970	17.020	17.100	17.150
168.5	18.810	18.640	18.110	17.400	16.840	17.010	17.110	17.170	17.240
169.0	18.720	18.560	18.040	17.390	16.870	17.040	17.180	17.270	17.380
169.5	18.680	18.490	18.040	17.400	16.910	17.080	17.210	17.290	17.440
170.0	18.650	18.420	17.980	17.390	16.940	17.110	17.210	17.270	17.380
170.5	18.580	18.400	17.960	17.350	16.950	17.080	17.210	17.290	17.310
171.0	18.520	18.380	17.950	17.380	17.000	17.130	17.230	17.300	17.340
171.5	18.490	18.340	17.910	17.380	17.020	17.170	17.220	17.330	17.360
172.0	18.430	18.260	17.870	17.350	17.030	17.200	17.290	17.390	17.380
172.5	18.360	18.160	17.840	17.330	17.050	17.250	17.300	17.410	17.370
173.0	18.300	18.090	17.800	17.310	17.110	17.230	17.370	17.370	17.390
173.5	18.230	18.090	17.790	17.320	17.110	17.270	17.360	17.460	17.420
174.0	18.190	18.020	17.750	17.300	17.130	17.280	17.330	17.420	17.470
174.5	18.120	17.990	17.690	17.300	17.210	17.300	17.340	17.440	17.370
175.0	18.040	17.890	17.630	17.300	17.170	17.340	17.350	17.410	17.410
175.5	17.930	17.840	17.590	17.340	17.240	17.340	17.380	17.470	17.390
176.0	17.880	17.770	17.490	17.290	17.230	17.340	17.400	17.460	17.390
176.5	17.840	17.730	17.430	17.320	17.260	17.360	17.380	17.500	17.440
177.0	17.780	17.570	17.390	17.330	17.250	17.360	17.380	17.460	17.350
177.5	17.650	17.560	17.410	17.330	17.280	17.390	17.400	17.410	17.410
178.0	17.530	17.530	17.330	17.340	17.320	17.370	17.390	17.430	17.420
178.5	17.420	17.400	17.400	17.380	17.310	17.390	17.380	17.440	17.360
179.0	17.370	17.430	17.370	17.370	17.290	17.370	17.410	17.410	17.390
179.5	17.330	17.400	17.370	17.350	17.310	17.390	17.370	17.430	17.430
180.0	17.380	17.380	17.380	17.380	17.380	17.380	17.380	17.380	17.380

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH4UD-L50-835U-L50-835D-DMW-WHT-NL-DIM-UNV NL ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4.12	N.A.	3.70
0-30	8.97	N.A.	8.00
0-40	15.10	N.A.	13.50
0-60	28.94	N.A.	25.80
0-80	41.39	N.A.	37.00
0-90	46.46	N.A.	41.50
10-90	45.42	N.A.	40.60
20-40	10.98	N.A.	9.80
20-50	17.84	N.A.	15.90
40-70	20.44	N.A.	18.30
60-80	12.45	N.A.	11.10
70-80	5.85	N.A.	5.20
80-90	5.07	N.A.	4.50
90-110	12.80	N.A.	11.40
90-120	21.76	N.A.	19.40
90-130	31.79	N.A.	28.40
90-150	51.38	N.A.	45.90
90-180	65.53	N.A.	58.50
110-180	52.73	N.A.	47.10
0-180	111.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.04
10-20	3.08
20-30	4.85
30-40	6.14
40-50	6.86
50-60	6.98
60-70	6.60
70-80	5.85
80-90	5.07
90-100	5.52
100-110	7.28
110-120	8.97
120-130	10.03
130-140	10.18
140-150	9.40
150-160	7.58
160-170	4.90
170-180	1.67

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH4UD-L50-835U-L50-835D-DMW-WHT-NL-DIM-UNV NL ONLY_.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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	94	89	84	80	85	81	77	73	66	63	60	52	50	48	39	38	37	31
2	85	76	69	64	77	69	63	58	56	52	48	45	41	39	34	31	29	24
3	77	66	58	52	69	60	53	48	49	44	40	39	35	32	29	26	24	20
4	70	58	50	43	63	53	46	40	43	38	33	34	30	27	26	23	20	16
5	64	52	43	37	58	47	40	34	38	33	28	30	26	23	23	20	17	14
6	59	46	38	32	53	42	35	29	34	29	24	27	23	20	21	17	15	12
7	54	41	33	27	49	38	30	25	31	25	21	25	20	17	19	16	13	10
8	50	37	29	24	45	34	27	22	28	23	19	22	18	15	17	14	12	9
9	47	34	26	21	42	31	24	20	26	20	16	21	16	13	16	13	10	8
10	43	31	24	19	39	29	22	17	24	18	15	19	15	12	15	12	9	7

IES INDOOR REPORT

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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	3.3	4.2	4.3	5.2	6.6	0.0	0.0	0.0	0.0	0.0
	3H	6.7	7.4	7.7	8.5	9.9	0.0	0.0	0.0	0.0	0.0
	4H	8.4	9.1	9.4	10.2	11.6	0.0	0.0	0.0	0.0	0.0
	6H	10.2	10.9	11.3	12.0	13.4	0.0	0.0	0.0	0.0	0.0
	8H	11.2	11.9	12.3	12.9	14.3	0.0	0.0	0.0	0.0	0.0
	12H	12.2	12.9	13.3	13.9	15.4	0.0	0.0	0.0	0.0	0.0

UGR Viewed Endwise

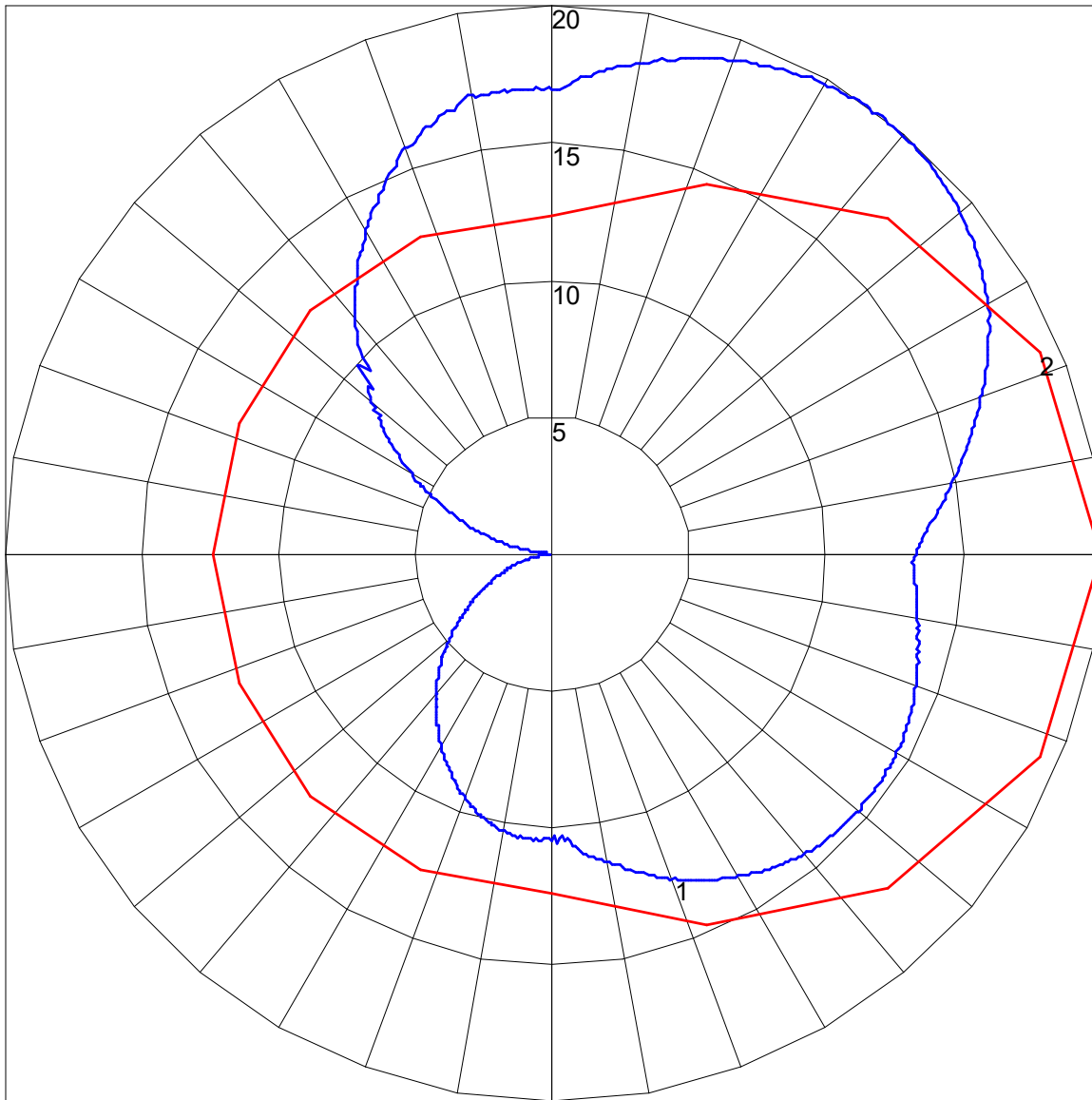
4H	2H	3.5	4.2	4.5	5.3	6.7	0.0	0.0	0.0	0.0	0.0
	3H	7.0	7.7	8.1	8.7	10.2	0.0	0.0	0.0	0.0	1.5
	4H	8.9	9.5	10.0	10.6	12.0	0.0	0.0	0.0	0.6	2.0
	6H	10.9	11.4	12.0	12.5	14.0	0.0	0.0	0.4	0.9	2.4
	8H	12.0	12.5	13.1	13.5	15.0	0.0	0.0	0.5	1.0	2.5
	12H	13.1	13.6	14.2	14.7	16.1	0.0	0.0	0.6	1.0	2.5
8H	4H	9.0	9.5	10.1	10.6	12.0	0.6	1.0	1.6	2.1	3.6
	6H	11.2	11.6	12.3	12.7	14.1	1.3	1.7	2.4	2.8	4.3
	8H	12.3	12.7	13.4	13.8	15.3	1.6	1.9	2.7	3.0	4.5
	12H	13.7	14.0	14.8	15.1	16.6	1.7	2.1	2.9	3.2	4.7
12H	4H	9.0	9.4	10.1	10.5	12.0	1.1	1.5	2.2	2.6	4.1
	6H	11.2	11.5	12.3	12.6	14.1	2.0	2.4	3.1	3.5	5.0
	8H	12.4	12.7	13.5	13.8	15.3	2.4	2.8	3.5	3.9	5.4

Maximum UGR = 16.6

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 20.47 Located At Horizontal Angle = 0, Vertical Angle = 145

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)