



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-DMA-WHT-DIM-UNV UP ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4792073931.01
[TESTLAB] UL, LLC
[ISSUEDATE] 1/6/2026
[TESTDATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-L50/835U/L50/835D-DMA-WHT-NL-DIM-UNV (UP ONLY)
[LUMINAIRE] 4' wall mounted fixture with both up and down lighting com
[MORE] partments
[LAMP] (2) 56 LED boards - 112 Total LED
[BALLAST] Eldoled OTI50/120-277/1A4 DIM-1 L G2 #57452
[OTHER] 24.4 C, 120.05 V, 0.362662 A, 42.852 W, 0.984253 PF, 59.9996 H
[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	5008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	42.7
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2985	2250	139
55	3938	2996	161
65	5180	3982	213
75	6883	5385	342
85	9359	7555	889

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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	8.206	8.206	8.206	8.206	8.206	8.206	8.206	8.206	8.206
0.5	5.204	7.705	9.006	9.607	9.607	9.206	8.306	7.205	5.304
1.0	5.204	8.206	9.407	9.807	9.707	9.006	8.106	7.005	5.204
1.5	5.504	8.906	10.007	10.007	9.707	8.906	7.906	6.905	5.204
2.0	6.004	9.707	10.607	10.307	9.607	8.806	7.906	6.805	5.104
2.5	6.505	10.707	11.408	10.607	9.607	8.806	7.906	6.805	5.204
3.0	6.805	11.708	12.209	10.908	9.607	8.806	7.906	6.805	5.104
3.5	7.505	13.009	13.009	11.308	9.607	8.706	7.906	6.705	5.104
4.0	8.006	14.310	13.810	11.608	9.507	8.706	7.906	6.705	5.104
4.5	8.406	15.711	14.610	12.008	9.507	8.706	7.906	6.705	5.003
5.0	9.307	17.212	15.911	12.309	9.507	8.706	7.906	6.605	5.104
5.5	10.307	18.713	17.012	12.709	9.507	8.706	7.906	6.605	5.104
6.0	11.008	20.314	17.913	13.109	9.407	8.606	7.906	6.505	5.003
6.5	11.808	22.115	18.913	13.610	9.507	8.706	7.705	6.404	5.104
7.0	12.609	23.416	19.914	13.810	9.407	8.506	7.705	6.304	5.003
7.5	14.510	25.017	21.015	14.410	9.307	8.506	7.705	6.304	5.003
8.0	18.013	26.619	22.616	14.810	9.307	8.506	7.705	6.204	5.003
8.5	23.717	28.420	24.217	15.311	9.307	8.506	7.605	6.204	5.104
9.0	28.820	30.421	25.518	15.711	9.307	8.406	7.505	6.104	5.104
9.5	31.322	32.923	26.919	16.211	9.206	8.406	7.505	6.004	5.104
10.0	33.323	35.325	28.220	16.812	9.206	8.306	7.505	6.004	5.104
10.5	35.225	37.526	29.521	17.312	9.206	8.406	7.405	5.904	5.204
11.0	37.226	39.828	30.922	17.913	9.106	8.306	7.305	5.904	5.204
11.5	38.927	42.430	32.323	18.513	9.106	8.306	7.405	5.804	5.204
12.0	40.628	45.031	33.724	19.113	9.106	8.206	7.305	5.804	5.304
12.5	42.430	47.633	35.225	19.714	9.006	8.106	7.305	5.804	5.304
13.0	44.731	50.135	36.926	20.314	9.006	8.106	7.205	5.704	5.504
13.5	47.333	52.437	38.627	20.915	9.006	8.106	7.105	5.604	5.704
14.0	50.235	54.538	40.428	21.615	8.906	8.006	7.105	5.604	6.004
14.5	52.637	56.740	42.029	22.115	8.906	8.006	7.005	5.604	6.104
15.0	54.738	58.841	43.530	22.816	8.806	7.906	7.005	5.604	6.204
15.5	55.839	61.043	45.432	23.316	8.806	7.805	6.905	5.604	6.204
16.0	56.740	63.244	47.333	23.617	8.706	7.805	6.805	5.604	6.104
16.5	61.143	65.446	49.234	24.317	8.706	7.805	6.805	5.604	6.104
17.0	64.945	67.647	51.136	24.817	8.706	7.705	6.705	5.504	6.204
17.5	67.747	69.949	52.937	25.218	8.606	7.605	6.605	5.404	6.104
18.0	70.649	72.150	54.738	25.918	8.606	7.505	6.605	5.404	6.104
18.5	73.551	74.452	56.239	26.619	8.506	7.505	6.505	5.404	6.004
19.0	76.654	76.754	57.941	27.519	8.506	7.405	6.505	5.404	6.004
19.5	80.256	78.955	59.442	28.520	8.406	7.305	6.404	5.404	5.904
20.0	83.558	81.357	61.143	29.220	8.406	7.305	6.404	5.404	5.904
20.5	86.260	83.659	62.744	29.921	8.306	7.205	6.304	5.304	5.804
21.0	88.862	85.960	64.445	31.022	8.306	7.205	6.304	5.304	5.804
21.5	91.564	88.462	66.046	32.022	8.206	7.105	6.304	5.304	5.804
22.0	94.766	91.164	67.747	33.123	8.206	7.105	6.204	5.304	5.704
22.5	98.069	93.866	69.349	34.024	8.106	6.905	6.104	5.304	5.704
23.0	101.271	96.467	71.050	34.824	8.006	6.905	6.104	5.304	5.604
23.5	104.573	99.470	72.651	35.625	8.006	6.905	6.004	5.304	5.604
24.0	107.775	102.372	74.352	36.826	8.006	6.805	5.904	5.204	5.604
24.5	110.477	105.073	76.053	38.027	7.906	6.805	5.904	5.304	5.604
25.0	113.179	107.875	77.754	38.827	7.906	6.605	5.804	5.204	5.504
25.5	115.881	110.677	79.456	39.728	7.805	6.605	5.804	5.204	5.504
26.0	118.583	113.179	81.157	40.628	7.805	6.505	5.704	5.204	5.404
26.5	121.385	115.681	82.958	41.429	7.705	6.505	5.604	5.204	5.304

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CANDELA TABULATION - (Cont.)

27.0	124.187	118.183	84.859	42.330	7.605	6.304	5.604	5.204	5.304
27.5	127.189	120.684	86.861	43.230	7.505	6.304	5.504	5.104	5.204
28.0	129.891	123.186	88.962	44.031	7.505	6.204	5.404	5.104	5.204
28.5	132.293	125.688	90.964	44.831	7.505	6.204	5.404	5.104	5.104
29.0	135.195	128.190	92.965	45.732	7.505	6.104	5.404	5.104	5.104
29.5	137.796	130.691	95.167	46.432	7.405	6.104	5.304	5.104	5.104
30.0	141.099	132.993	97.168	47.233	7.305	5.904	5.304	5.003	4.903
30.5	143.600	135.795	99.169	48.134	7.305	5.904	5.204	5.003	5.003
31.0	146.302	138.297	101.271	48.834	7.305	5.804	5.204	5.003	4.903
31.5	149.204	140.598	103.272	49.635	7.205	5.804	5.204	5.003	4.803
32.0	151.906	143.100	105.374	50.335	7.205	5.704	5.104	5.104	4.903
32.5	154.608	145.602	107.275	51.136	7.105	5.604	5.104	5.104	4.703
33.0	157.210	148.204	109.076	52.036	7.105	5.604	5.104	5.003	4.703
33.5	160.212	150.605	110.878	52.837	7.005	5.504	5.104	5.003	4.703
34.0	162.914	153.207	112.679	53.638	7.005	5.504	5.003	5.003	4.603
34.5	165.816	155.709	114.480	54.338	6.905	5.404	5.003	5.003	4.603
35.0	168.118	158.211	116.381	55.139	6.905	5.404	5.003	5.003	4.603
35.5	170.819	160.812	118.083	55.939	6.905	5.304	5.003	5.003	4.603
36.0	174.122	163.314	120.084	56.740	6.905	5.304	5.003	5.003	4.503
36.5	177.024	165.816	121.885	57.540	6.905	5.204	4.903	5.003	4.503
37.0	179.626	168.418	123.586	58.241	6.805	5.204	4.903	4.903	4.503
37.5	182.628	171.020	125.288	59.041	6.805	5.104	4.903	4.903	4.403
38.0	185.430	173.521	127.289	59.842	6.805	5.104	4.903	4.903	4.303
38.5	188.232	176.123	129.090	60.642	6.705	5.104	4.903	4.803	4.303
39.0	191.234	178.725	130.791	61.443	6.705	5.003	4.903	4.803	4.303
39.5	193.936	181.227	132.593	62.143	6.705	5.003	4.903	4.803	4.303
40.0	196.838	183.829	134.494	62.944	6.705	5.003	4.803	4.703	4.303
40.5	199.840	186.230	136.395	63.745	6.605	4.903	4.803	4.803	4.303
41.0	202.342	189.032	138.097	64.445	6.605	4.903	4.803	4.703	4.103
41.5	205.344	191.534	139.998	65.446	6.605	4.803	4.803	4.703	4.203
42.0	208.146	193.936	141.699	66.346	6.605	4.903	4.703	4.603	4.103
42.5	211.048	196.537	143.500	67.247	6.605	4.803	4.703	4.603	4.203
43.0	213.950	199.039	145.101	68.348	6.505	4.803	4.703	4.603	4.003
43.5	216.551	201.541	147.003	69.349	6.505	4.803	4.703	4.503	4.103
44.0	219.353	204.043	148.904	70.349	6.505	4.703	4.703	4.503	4.103
44.5	222.255	206.645	150.505	71.250	6.505	4.703	4.603	4.403	4.003
45.0	225.258	209.146	152.407	72.050	6.505	4.603	4.603	4.403	4.003
45.5	227.759	211.748	154.208	72.851	6.404	4.703	4.603	4.403	3.903
46.0	230.361	214.350	156.009	73.652	6.404	4.703	4.603	4.403	3.903
46.5	233.363	216.852	157.810	74.552	6.505	4.603	4.603	4.303	3.903
47.0	236.165	219.353	159.612	75.353	6.404	4.603	4.603	4.403	3.803
47.5	238.867	222.255	161.313	76.353	6.404	4.603	4.503	4.303	3.803
48.0	241.869	224.457	163.414	77.354	6.404	4.503	4.603	4.303	3.803
48.5	244.371	227.259	164.915	78.355	6.404	4.503	4.503	4.203	3.803
49.0	247.373	229.761	166.817	79.356	6.304	4.503	4.503	4.203	3.803
49.5	250.475	232.262	168.518	80.256	6.304	4.503	4.503	4.103	3.803
50.0	253.077	234.964	170.219	81.157	6.304	4.403	4.403	4.103	3.803
50.5	255.979	237.466	172.120	81.857	6.304	4.403	4.403	4.203	3.703
51.0	258.681	240.168	174.022	82.658	6.304	4.403	4.403	4.103	3.603
51.5	261.783	242.770	175.723	83.558	6.304	4.403	4.403	4.103	3.603
52.0	264.885	245.272	177.324	84.259	6.304	4.403	4.403	4.003	3.603
52.5	267.687	247.873	179.225	85.059	6.304	4.303	4.303	4.003	3.603
53.0	270.489	250.275	181.027	85.860	6.304	4.303	4.303	4.003	3.603
53.5	273.291	252.977	182.728	86.561	6.304	4.303	4.303	4.003	3.502
54.0	276.493	255.379	184.429	87.361	6.204	4.303	4.303	4.003	3.603
54.5	279.295	258.281	186.230	88.162	6.204	4.303	4.203	3.903	3.402

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CANDELA TABULATION - (Cont.)

55.0	282.297	260.682	187.931	88.862	6.204	4.203	4.203	3.903	3.502
55.5	285.199	263.184	189.833	89.663	6.204	4.103	4.103	3.903	3.502
56.0	288.202	265.786	191.534	90.363	6.204	4.203	4.203	3.903	3.402
56.5	291.404	268.288	193.335	91.164	6.304	4.103	4.103	3.903	3.402
57.0	294.306	270.990	194.936	91.964	6.204	4.203	4.203	3.803	3.502
57.5	297.208	273.591	196.938	92.665	6.304	4.003	4.103	3.803	3.402
58.0	299.810	275.993	198.639	93.465	6.204	4.103	4.103	3.803	3.402
58.5	303.012	278.595	200.140	94.166	6.204	4.103	4.103	3.803	3.402
59.0	305.914	281.397	201.841	94.966	6.204	4.003	4.103	3.803	3.402
59.5	308.916	283.698	203.843	95.667	6.204	4.003	4.103	3.803	3.402
60.0	311.418	286.200	205.444	96.367	6.204	3.903	4.103	3.803	3.402
60.5	314.520	288.802	207.145	97.068	6.204	3.903	4.003	3.803	3.402
61.0	317.422	291.504	208.846	97.868	6.204	3.903	4.003	3.803	3.402
61.5	320.224	294.006	210.547	98.569	6.204	3.903	4.003	3.803	3.402
62.0	323.026	296.507	212.248	99.370	6.304	3.803	4.003	3.703	3.402
62.5	325.928	299.209	214.150	100.070	6.304	3.803	4.003	3.703	3.402
63.0	328.830	301.911	215.651	100.770	6.304	3.803	3.903	3.703	3.402
63.5	331.732	304.413	217.352	101.571	6.304	3.803	4.003	3.803	3.402
64.0	334.734	306.915	219.053	102.272	6.304	3.803	4.003	3.803	3.302
64.5	337.636	309.416	220.654	102.972	6.204	3.803	4.003	3.803	3.402
65.0	340.438	311.918	222.255	103.673	6.204	3.803	4.003	3.803	3.402
65.5	343.040	314.420	224.057	104.373	6.204	3.803	4.003	3.803	3.402
66.0	345.942	317.022	225.758	104.973	6.304	3.703	4.003	3.803	3.402
66.5	349.044	319.423	227.259	105.674	6.204	3.703	3.903	3.803	3.402
67.0	351.946	322.025	229.060	106.374	6.304	3.703	4.003	3.803	3.402
67.5	354.748	324.627	230.761	107.075	6.404	3.703	4.003	3.803	3.402
68.0	357.650	326.929	232.262	107.675	6.304	3.703	3.903	3.803	3.402
68.5	360.552	329.531	233.864	108.376	6.304	3.703	3.903	3.803	3.402
69.0	363.254	331.932	235.565	108.976	6.304	3.703	3.903	3.803	3.402
69.5	366.156	334.434	237.266	109.677	6.304	3.703	4.003	3.803	3.402
70.0	369.158	337.136	238.767	110.377	6.304	3.703	3.903	3.803	3.502
70.5	372.160	339.538	240.468	111.078	6.204	3.603	3.903	3.803	3.402
71.0	375.062	342.139	242.069	111.478	6.304	3.603	3.903	3.803	3.402
71.5	378.165	344.741	243.470	112.078	6.304	3.603	3.803	3.803	3.402
72.0	380.566	346.943	245.171	112.779	6.404	3.603	3.903	3.803	3.502
72.5	383.668	349.645	246.773	113.379	6.304	3.603	3.903	3.803	3.502
73.0	386.170	352.046	248.374	114.080	6.404	3.603	3.903	3.803	3.502
73.5	389.172	354.448	249.775	114.780	6.304	3.603	3.903	3.803	3.502
74.0	392.174	356.950	251.276	115.281	6.404	3.603	3.903	3.903	3.402
74.5	394.676	359.051	252.977	115.781	6.404	3.603	3.903	3.903	3.402
75.0	397.578	361.553	254.178	116.582	6.404	3.603	3.903	3.803	3.402
75.5	400.280	363.955	255.579	116.982	6.505	3.603	4.003	3.803	3.502
76.0	402.882	366.356	257.180	117.482	6.505	3.603	3.903	3.803	3.502
76.5	405.984	368.658	258.481	118.383	6.505	3.603	3.903	3.803	3.402
77.0	408.586	370.959	259.882	118.783	6.605	3.603	4.003	3.803	3.502
77.5	411.288	373.161	261.183	119.584	6.605	3.603	3.903	3.803	3.502
78.0	413.890	375.463	262.684	120.084	6.605	3.603	3.903	3.803	3.502
78.5	416.591	377.464	264.285	120.885	6.605	3.603	3.903	3.903	3.502
79.0	419.093	379.566	265.586	121.285	6.705	3.603	3.903	3.903	3.502
79.5	421.795	381.767	267.087	121.885	6.705	3.603	4.003	3.903	3.502
80.0	424.097	383.969	268.288	122.286	6.805	3.703	4.003	3.903	3.502
80.5	426.598	385.870	269.689	122.986	6.805	3.703	4.003	3.903	3.502
81.0	429.200	388.071	271.090	123.586	6.905	3.703	4.003	3.903	3.502
81.5	431.802	390.173	272.290	124.087	6.905	3.803	4.103	3.903	3.502
82.0	434.304	392.274	273.691	124.587	6.905	3.803	4.003	3.903	3.402
82.5	437.206	394.376	274.892	125.188	6.905	3.803	4.103	4.003	3.603

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CANDELA TABULATION - (Cont.)

83.0	439.507	396.577	276.093	125.888	6.905	3.803	4.103	4.003	3.502
83.5	441.909	398.779	277.294	126.589	6.905	3.903	4.103	4.003	3.502
84.0	444.511	400.880	278.495	126.989	6.905	3.903	4.103	4.003	3.603
84.5	447.113	402.882	279.596	127.489	6.905	3.903	4.103	4.003	3.502
85.0	449.715	404.883	280.696	127.990	6.905	3.903	4.103	4.003	3.603
85.5	452.416	407.085	281.897	128.490	6.905	3.903	4.203	4.003	3.603
86.0	454.818	409.587	282.998	128.990	6.905	3.903	4.203	4.003	3.603
86.5	457.920	412.689	284.299	129.491	6.905	4.003	4.203	4.103	3.703
87.0	461.523	417.292	286.100	130.091	6.905	4.003	4.203	4.103	3.703
87.5	466.726	422.796	289.002	130.591	6.905	4.103	4.303	4.203	3.803
88.0	473.531	429.801	293.505	131.192	6.905	4.103	4.303	4.203	4.003
88.5	481.337	437.406	299.409	132.693	6.905	4.103	4.403	4.203	3.903
89.0	489.442	445.412	306.314	135.695	7.005	4.103	4.403	4.303	4.003
89.5	497.948	453.517	313.419	141.199	7.205	4.203	4.403	4.303	4.003
90.0	506.955	461.723	320.624	147.503	8.106	4.203	4.503	4.403	4.103
90.5	515.260	469.829	327.529	153.908	10.908	4.303	4.603	4.503	4.203
91.0	524.067	478.034	334.934	160.612	16.011	4.503	4.603	4.603	4.203
91.5	532.773	486.340	342.339	167.217	22.015	6.104	4.703	4.603	4.203
92.0	541.579	494.746	349.945	173.722	27.819	9.106	5.003	4.603	4.403
92.5	550.485	503.552	357.750	180.226	33.523	13.810	5.904	4.903	4.603
93.0	559.491	512.058	365.756	187.231	39.227	19.314	7.906	5.304	5.304
93.5	568.498	520.964	373.761	193.936	45.031	24.817	11.308	6.505	6.905
94.0	577.704	529.971	382.167	201.241	51.136	30.421	15.911	8.706	10.007
94.5	587.011	538.877	390.473	208.446	57.340	35.925	21.215	12.108	14.310
95.0	596.417	548.284	399.179	215.851	63.745	41.829	26.719	16.411	19.213
95.5	605.824	557.690	407.885	223.356	70.349	47.733	32.323	21.515	24.617
96.0	615.330	566.997	416.691	231.162	77.154	53.838	38.227	26.919	30.021
96.5	624.837	576.403	425.498	239.067	84.259	60.142	44.131	32.523	35.825
97.0	634.444	585.710	434.304	247.173	91.464	66.446	50.235	38.327	41.729
97.5	644.151	595.517	443.210	255.379	98.869	73.151	56.439	44.331	47.533
98.0	654.058	605.223	451.916	264.085	106.374	79.956	62.644	50.235	53.537
98.5	664.065	615.130	461.123	272.791	114.180	86.961	69.248	56.540	59.842
99.0	674.072	625.037	470.329	281.597	122.386	94.466	75.853	62.844	66.246
99.5	683.978	634.944	479.736	290.603	130.691	101.871	82.858	69.349	72.851
100.0	694.086	644.951	489.242	299.910	139.097	109.677	89.763	75.953	79.356
100.5	704.093	655.158	498.849	309.116	147.703	117.482	96.968	82.558	86.160
101.0	714.400	665.165	508.456	318.623	156.409	125.288	104.373	89.363	92.865
101.5	724.307	675.472	518.263	328.029	165.416	133.593	111.778	96.267	99.970
102.0	734.814	685.479	528.370	337.636	174.522	141.599	119.484	103.372	107.175
102.5	745.021	695.587	538.277	347.243	183.628	150.305	127.189	110.677	114.380
103.0	755.128	705.894	548.284	356.850	193.035	160.712	135.094	117.983	121.785
103.5	765.636	716.001	558.391	366.757	202.642	169.318	143.100	125.488	129.090
104.0	775.643	726.308	568.498	376.764	212.048	176.724	151.106	132.993	136.896
104.5	786.150	736.715	578.805	386.670	221.655	185.830	159.512	140.899	144.701
105.0	796.557	746.822	588.812	396.577	231.662	194.636	167.717	148.704	152.607
105.5	806.264	757.130	599.219	406.584	241.469	203.943	176.223	156.610	160.512
106.0	816.871	767.437	609.326	416.792	251.576	214.350	184.729	164.615	168.518
106.5	826.878	777.544	619.433	426.999	261.783	225.157	193.435	172.621	176.624
107.0	837.186	787.751	629.640	437.006	271.890	233.063	202.041	181.027	185.230
107.5	847.493	798.158	639.748	447.213	282.197	241.569	211.048	189.232	193.335
108.0	857.600	808.365	649.955	457.720	292.405	251.176	219.854	197.938	201.841
108.5	867.707	818.573	660.262	468.127	302.912	260.882	228.760	206.444	210.147
109.0	878.114	828.480	670.369	478.535	313.319	270.689	237.966	215.150	218.753
109.5	888.121	838.787	680.676	488.842	323.726	280.396	246.973	223.656	227.259
110.0	898.328	848.694	690.583	499.449	334.334	290.303	255.979	232.463	236.065
110.5	908.335	858.701	700.390	509.957	344.941	300.210	265.286	241.269	244.771

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CANDELA TABULATION - (Cont.)

111.0	918.442	868.407	710.597	520.364	355.649	310.117	274.592	250.075	253.677
111.5	928.149	878.414	720.604	530.971	366.356	320.124	283.799	259.081	262.183
112.0	937.856	888.221	730.811	541.579	377.064	330.231	293.305	268.088	270.889
112.5	947.963	898.028	740.918	552.386	387.971	340.538	302.912	276.994	279.596
113.0	957.670	907.835	750.925	562.994	398.579	350.845	312.318	285.900	288.602
113.5	967.577	917.542	761.132	573.901	409.286	361.153	322.025	295.106	297.808
114.0	977.484	927.249	771.239	584.509	420.294	371.360	331.832	304.213	306.815
114.5	987.191	936.955	781.246	595.216	430.901	381.867	343.740	313.519	315.821
115.0	996.497	946.562	791.253	605.924	441.609	392.174	356.349	322.826	324.927
115.5	1005.703	956.269	801.260	616.631	452.517	402.782	365.356	331.932	333.834
116.0	1015.710	965.575	811.267	627.339	463.424	413.189	371.460	341.239	343.540
116.5	1024.717	975.082	821.174	637.946	474.132	423.596	380.066	350.545	352.647
117.0	1034.724	984.689	831.281	648.754	484.939	434.404	391.374	360.052	362.053
117.5	1043.730	993.995	841.188	659.361	496.047	444.611	404.183	369.158	371.160
118.0	1052.736	1003.702	851.095	670.069	506.654	455.419	414.490	378.665	380.466
118.5	1061.743	1012.708	861.302	680.776	517.662	465.926	421.295	387.871	389.773
119.0	1070.749	1021.715	870.909	691.484	528.470	476.333	429.100	397.578	399.279
119.5	1079.755	1031.722	880.916	702.091	539.377	486.640	438.707	406.985	408.386
120.0	1088.762	1040.728	890.723	712.598	550.385	497.148	448.514	416.591	418.293
120.5	1097.768	1049.734	900.530	722.906	561.193	507.755	458.421	425.998	427.499
121.0	1106.774	1058.741	910.337	733.613	571.700	518.162	468.228	435.705	436.806
121.5	1115.780	1067.747	919.944	744.121	582.708	528.470	478.034	447.213	446.212
122.0	1123.786	1076.753	929.650	754.728	593.615	538.777	488.141	460.222	455.819
122.5	1132.792	1084.759	939.257	765.135	604.323	549.084	497.948	471.530	465.526
123.0	1141.799	1093.765	948.964	775.643	615.030	559.591	507.855	478.835	475.132
123.5	1150.805	1102.771	958.571	785.950	625.938	569.899	517.862	487.741	485.039
124.0	1158.811	1110.777	968.477	796.257	636.545	580.406	527.869	499.249	498.249
124.5	1167.817	1119.783	978.184	806.764	647.353	590.913	537.876	509.056	515.461
125.0	1175.822	1128.790	987.791	817.272	657.960	601.020	548.083	515.661	526.668
125.5	1183.828	1136.795	997.598	827.579	668.868	611.528	557.990	522.566	531.772
126.0	1192.834	1145.801	1006.704	837.686	679.475	621.935	568.097	531.972	533.573
126.5	1200.840	1153.807	1016.711	847.893	690.083	632.042	578.004	541.479	541.979
127.0	1208.846	1162.813	1026.718	858.100	700.790	642.650	588.011	551.085	551.586
127.5	1216.851	1170.819	1035.724	868.007	711.498	652.957	598.018	560.692	561.193
128.0	1224.857	1178.825	1044.731	878.414	722.005	663.564	608.125	570.399	571.099
128.5	1232.862	1187.831	1054.738	888.622	732.813	674.072	617.932	580.106	580.806
129.0	1240.868	1195.836	1063.744	898.629	743.620	684.379	628.340	590.213	590.713
129.5	1243.870	1203.842	1072.750	908.736	754.328	694.786	638.647	599.820	600.620
130.0	1251.876	1211.848	1082.757	918.843	764.935	705.193	648.854	609.526	610.427
130.5	1257.880	1219.853	1091.764	929.050	775.442	715.701	658.961	619.233	620.434
131.0	1265.885	1226.858	1100.770	939.057	786.250	726.108	668.968	628.940	630.241
131.5	1269.888	1233.863	1109.776	949.064	797.158	736.415	678.975	638.947	640.048
132.0	1280.896	1240.868	1118.783	958.971	807.865	746.722	689.382	648.854	650.255
132.5	1288.902	1247.873	1127.789	968.878	818.673	757.130	699.489	658.761	660.362
133.0	1293.905	1253.877	1136.795	978.585	829.480	767.437	709.997	668.368	669.969
133.5	1301.911	1259.881	1145.801	988.692	839.888	777.844	720.104	679.575	679.876
134.0	1311.918	1268.888	1154.808	998.699	850.495	788.351	730.411	689.382	689.983
134.5	1316.921	1275.892	1162.813	1008.706	861.202	798.559	740.718	699.289	699.890
135.0	1324.927	1284.899	1171.820	1018.713	871.910	809.266	750.925	709.396	710.197
135.5	1333.933	1290.903	1180.826	1027.719	882.517	819.773	761.132	719.503	720.004
136.0	1338.937	1297.908	1189.832	1037.726	893.125	830.181	771.239	729.310	730.111
136.5	1348.944	1304.913	1197.838	1047.733	903.632	840.388	781.447	739.317	740.018
137.0	1351.946	1312.918	1205.843	1057.740	914.240	850.995	791.754	749.124	750.325
137.5	1360.952	1320.924	1214.850	1066.746	924.547	861.302	801.661	759.231	760.332
138.0	1365.955	1326.928	1220.854	1076.753	935.354	871.810	812.068	769.238	770.539
138.5	1374.962	1335.934	1227.859	1085.759	945.361	882.117	822.175	779.545	780.846

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

139.0	1380.966	1340.938	1236.865	1095.766	955.769	892.124	832.282	789.452	790.953
139.5	1386.970	1347.943	1243.870	1104.773	966.076	902.531	842.289	799.459	800.960
140.0	1392.974	1354.948	1251.876	1113.779	976.383	912.538	852.096	809.366	810.867
140.5	1400.980	1361.953	1256.879	1123.786	986.690	922.846	862.403	819.673	821.575
141.0	1406.984	1368.958	1263.884	1132.792	997.198	932.853	872.710	830.281	832.182
141.5	1413.989	1372.960	1272.890	1142.799	1007.705	943.060	882.818	840.688	842.489
142.0	1418.993	1380.966	1279.895	1151.806	1017.712	953.267	893.025	851.095	852.897
142.5	1424.997	1387.971	1287.901	1160.812	1027.719	963.274	903.032	861.002	863.304
143.0	1433.002	1393.975	1294.906	1169.818	1037.726	973.481	913.039	871.009	873.611
143.5	1440.007	1398.979	1301.911	1178.825	1048.734	983.888	923.446	881.617	883.918
144.0	1441.008	1404.983	1309.916	1187.831	1058.741	994.095	933.553	892.124	894.426
144.5	1449.014	1411.988	1316.921	1196.837	1068.748	1003.702	943.660	902.431	904.833
145.0	1457.019	1417.992	1322.925	1204.843	1078.755	1013.709	953.667	912.438	915.540
145.5	1460.021	1423.996	1331.932	1213.849	1088.762	1023.716	963.774	922.745	925.547
146.0	1466.025	1429.000	1337.936	1221.855	1097.768	1033.723	973.581	932.752	935.855
146.5	1474.031	1436.004	1344.941	1227.859	1107.775	1043.730	983.488	943.060	946.162
147.0	1479.035	1441.008	1351.946	1235.864	1117.782	1053.737	993.795	953.267	956.669
147.5	1486.039	1448.013	1357.950	1241.869	1126.788	1063.744	1003.702	963.474	966.676
148.0	1489.042	1451.015	1364.955	1248.874	1136.795	1073.751	1013.709	973.681	977.184
148.5	1492.044	1456.018	1369.958	1257.880	1145.801	1082.757	1023.716	983.888	987.291
149.0	1498.048	1463.023	1376.963	1265.885	1155.808	1091.764	1033.723	993.995	997.798
149.5	1502.051	1464.024	1381.967	1271.890	1164.815	1101.771	1043.730	1003.702	1007.705
150.0	1506.053	1471.029	1388.972	1280.896	1173.821	1111.778	1053.737	1013.709	1018.713
150.5	1512.058	1476.032	1396.977	1287.901	1182.827	1120.784	1063.744	1024.717	1028.720
151.0	1515.060	1481.036	1399.979	1295.906	1191.834	1129.790	1072.750	1034.724	1039.727
151.5	1521.064	1484.038	1407.985	1302.911	1200.840	1139.797	1082.757	1044.731	1049.734
152.0	1524.066	1488.041	1411.988	1310.917	1209.846	1148.804	1092.764	1054.738	1060.742
152.5	1526.067	1493.044	1417.992	1316.921	1218.853	1157.810	1102.771	1064.745	1070.749
153.0	1529.070	1496.046	1423.996	1324.927	1226.858	1166.816	1111.778	1073.751	1080.756
153.5	1535.074	1501.050	1429.000	1331.932	1231.862	1175.822	1121.785	1084.759	1090.763
154.0	1536.074	1505.053	1433.002	1339.937	1241.869	1185.829	1130.791	1094.766	1101.771
154.5	1541.078	1508.055	1437.005	1345.941	1248.874	1193.835	1140.798	1104.773	1111.778
155.0	1546.081	1512.058	1443.009	1351.946	1254.878	1202.841	1149.804	1113.779	1121.785
155.5	1548.083	1514.059	1448.013	1358.951	1261.883	1211.848	1159.811	1123.786	1131.792
156.0	1548.083	1518.062	1452.016	1364.955	1270.889	1220.854	1168.818	1133.793	1141.799
156.5	1553.086	1522.065	1456.018	1371.960	1277.894	1225.857	1177.824	1143.800	1150.805
157.0	1557.089	1524.066	1461.022	1377.964	1285.899	1234.864	1186.830	1152.806	1160.812
157.5	1557.089	1527.068	1465.025	1382.967	1292.904	1242.869	1196.837	1162.813	1170.819
158.0	1562.093	1527.068	1469.028	1388.972	1299.909	1250.875	1205.843	1172.820	1180.826
158.5	1563.093	1530.070	1472.030	1393.975	1307.915	1256.879	1213.849	1181.827	1189.832
159.0	1563.093	1533.072	1476.032	1399.979	1314.920	1264.885	1219.853	1190.833	1199.839
159.5	1568.097	1536.074	1479.035	1405.983	1320.924	1273.891	1231.862	1200.840	1208.846
160.0	1568.097	1538.076	1482.037	1410.987	1328.930	1280.896	1236.865	1209.846	1218.853
160.5	1568.097	1540.077	1486.039	1414.990	1334.934	1288.902	1245.871	1218.853	1227.859
161.0	1572.100	1543.079	1489.042	1419.993	1339.937	1295.906	1252.876	1225.857	1237.866
161.5	1572.100	1542.079	1493.044	1424.997	1347.943	1303.912	1258.881	1234.864	1245.871
162.0	1572.100	1543.079	1492.044	1430.000	1352.946	1310.917	1267.887	1243.870	1249.874
162.5	1571.099	1543.079	1497.047	1432.002	1360.952	1318.923	1274.892	1250.875	1258.881
163.0	1573.100	1547.082	1498.048	1438.006	1365.955	1326.928	1284.899	1257.880	1266.886
163.5	1574.101	1546.081	1500.049	1441.008	1372.960	1332.932	1291.904	1266.886	1275.892
164.0	1577.103	1548.083	1503.051	1445.011	1377.964	1338.937	1298.909	1274.892	1283.898
164.5	1576.102	1547.082	1504.052	1448.013	1383.968	1345.941	1307.915	1283.898	1294.906
165.0	1575.102	1549.084	1506.053	1452.016	1389.972	1353.947	1315.920	1290.903	1302.911
165.5	1572.100	1546.081	1507.054	1456.018	1395.976	1358.951	1321.925	1297.908	1309.916
166.0	1574.101	1546.081	1508.055	1460.021	1400.980	1364.955	1328.930	1306.914	1319.923
166.5	1574.101	1546.081	1510.056	1464.024	1404.983	1371.960	1336.935	1314.920	1328.930

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167.0	1574.101	1546.081	1510.056	1464.024	1409.986	1376.963	1344.941	1321.925	1336.935
167.5	1572.100	1544.080	1511.057	1467.026	1413.989	1382.967	1349.944	1330.931	1343.940
168.0	1567.096	1543.079	1512.058	1470.028	1418.993	1388.972	1357.950	1338.937	1351.946
168.5	1568.097	1543.079	1513.058	1473.030	1423.996	1394.976	1365.955	1346.942	1359.951
169.0	1564.094	1542.079	1512.058	1472.030	1429.000	1400.980	1370.959	1352.946	1366.956
169.5	1563.093	1540.077	1513.058	1476.032	1432.002	1404.983	1378.965	1361.953	1372.960
170.0	1562.093	1538.076	1513.058	1477.033	1435.004	1410.987	1384.969	1367.957	1380.966
170.5	1561.092	1538.076	1511.057	1479.035	1438.006	1415.990	1389.972	1374.962	1387.971
171.0	1557.089	1536.074	1513.058	1480.035	1440.007	1420.994	1394.976	1381.967	1393.975
171.5	1554.087	1534.073	1510.056	1481.036	1445.011	1423.996	1400.980	1388.972	1401.981
172.0	1553.086	1531.071	1511.057	1483.037	1449.014	1429.000	1406.984	1392.974	1407.985
172.5	1550.084	1528.069	1509.056	1483.037	1452.016	1434.003	1412.988	1400.980	1415.990
173.0	1545.081	1526.067	1507.054	1483.037	1454.017	1439.007	1418.993	1406.984	1419.993
173.5	1543.079	1523.065	1507.054	1485.039	1456.018	1441.008	1423.996	1411.988	1426.998
174.0	1541.078	1521.064	1504.052	1485.039	1457.019	1446.011	1427.999	1417.992	1434.003
174.5	1537.075	1516.060	1502.051	1485.039	1460.021	1451.015	1433.002	1423.996	1437.005
175.0	1533.072	1513.058	1500.049	1483.037	1463.023	1454.017	1437.005	1429.000	1443.009
175.5	1529.070	1510.056	1498.048	1485.039	1465.025	1456.018	1442.009	1434.003	1447.012
176.0	1529.070	1507.054	1496.046	1485.039	1467.026	1460.021	1447.012	1439.007	1455.018
176.5	1522.065	1502.051	1494.045	1484.038	1468.027	1462.023	1453.016	1444.010	1458.020
177.0	1519.063	1499.049	1490.042	1484.038	1468.027	1465.025	1454.017	1449.014	1463.023
177.5	1514.059	1494.045	1489.042	1482.037	1470.028	1466.025	1459.021	1453.016	1466.025
178.0	1509.056	1491.043	1487.040	1482.037	1471.029	1469.028	1462.023	1459.021	1474.031
178.5	1503.051	1485.039	1484.038	1481.036	1471.029	1472.030	1465.025	1463.023	1479.035
179.0	1499.049	1483.037	1480.035	1481.036	1472.030	1473.030	1470.028	1467.026	1481.036
179.5	1495.046	1479.035	1478.034	1479.035	1472.030	1475.032	1472.030	1470.028	1489.042
180.0	1477.033	1477.033	1477.033	1477.033	1477.033	1477.033	1477.033	1477.033	1477.033

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-L50-835U-DMA-WHT-DIM-UNV UP ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7.97	N.A.	0.20
0-30	26.07	N.A.	0.50
0-40	60.73	N.A.	1.20
0-60	194.48	N.A.	3.90
0-80	422.91	N.A.	8.40
0-90	569.13	N.A.	11.40
10-90	567.94	N.A.	11.30
20-40	52.75	N.A.	1.10
20-50	107.96	N.A.	2.20
40-70	236.51	N.A.	4.70
60-80	228.44	N.A.	4.60
70-80	125.68	N.A.	2.50
80-90	146.21	N.A.	2.90
90-110	615.87	N.A.	12.30
90-120	1174.63	N.A.	23.50
90-130	1856.77	N.A.	37.10
90-150	3304.08	N.A.	66.00
90-180	4438.66	N.A.	88.60
110-180	3822.78	N.A.	76.30
0-180	5007.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.19
10-20	6.79
20-30	18.10
30-40	34.65
40-50	55.21
50-60	78.54
60-70	102.76
70-80	125.68
80-90	146.21
90-100	225.34
100-110	390.54
110-120	558.76
120-130	682.14
130-140	736.47
140-150	710.83
150-160	596.70
160-170	398.12
170-180	139.76

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-DMA-WHT-DIM-UNV UP 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	98	98	98	98	85	85	85	85	62	62	62	40	40	40	21	21	21	11
1	88	83	79	75	76	72	69	65	52	49	47	33	32	30	16	15	14	7
2	79	72	65	60	68	62	57	53	45	41	38	28	26	24	13	12	11	4
3	72	62	55	49	62	54	48	43	39	35	31	24	22	20	11	10	9	3
4	65	55	47	41	56	48	41	36	34	30	26	21	19	17	10	8	7	2
5	60	48	40	35	51	42	35	30	30	26	22	19	16	14	9	7	6	2
6	55	43	35	29	47	37	31	26	27	22	19	17	14	12	8	6	5	1
7	50	38	31	25	43	33	27	22	24	20	16	15	12	10	7	5	4	1
8	46	35	27	22	40	30	24	19	22	17	14	14	11	9	6	5	4	1
9	43	31	24	19	37	27	21	17	20	15	12	12	10	8	6	4	3	1
10	40	28	22	17	35	25	19	15	18	14	11	11	9	7	5	4	3	1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-DMA-WHT-DIM-UNV UP ONLY_.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

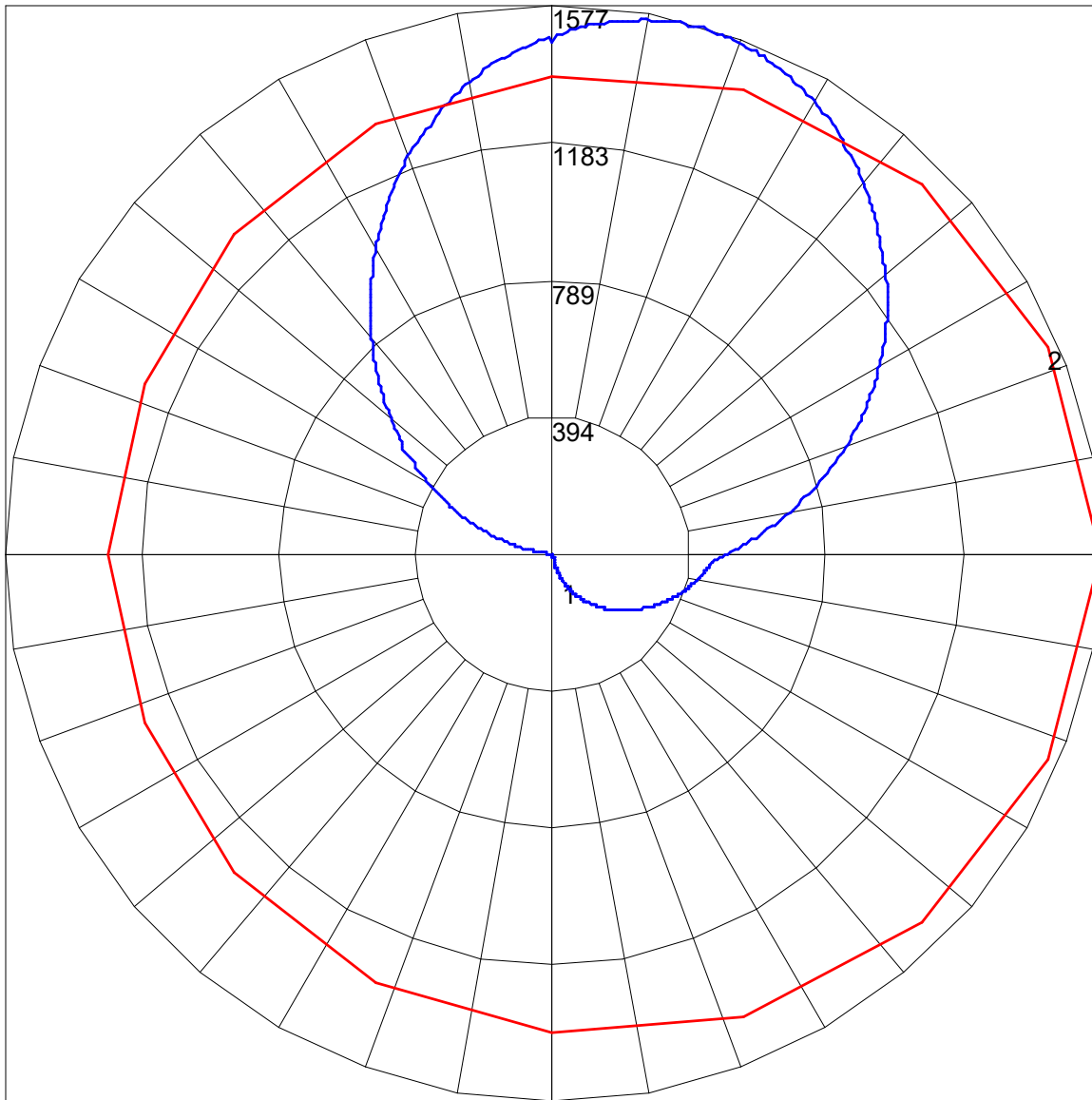
X=2H	Y=2H	12.3	13.0	13.6	14.2	15.9	UGR Viewed Endwise				
	3H	16.8	17.4	18.1	18.6	20.4	0.0	0.4	1.0	1.6	3.3
	4H	19.2	19.7	20.4	21.0	22.7	1.6	2.2	2.8	3.4	5.1
	6H	21.7	22.2	23.0	23.4	25.2	2.3	2.8	3.5	4.0	5.8
	8H	23.1	23.5	24.3	24.8	26.5	2.8	3.3	4.1	4.6	6.3
	12H	24.5	25.0	25.7	26.2	27.9	3.0	3.5	4.3	4.7	6.5
							3.2	3.6	4.4	4.8	6.6
4H	2H	12.7	13.2	13.9	14.4	16.2	4.9	5.4	6.1	6.6	8.4
	3H	17.4	17.9	18.7	19.1	20.9	7.0	7.4	8.2	8.7	10.4
	4H	20.0	20.4	21.2	21.6	23.4	7.8	8.2	9.1	9.5	11.2
	6H	22.7	23.1	23.9	24.3	26.1	8.5	8.8	9.7	10.1	11.8
	8H	24.1	24.5	25.4	25.7	27.5	8.7	9.0	9.9	10.3	12.0
	12H	25.7	26.0	27.0	27.3	29.0	8.8	9.1	10.1	10.4	12.1
8H	4H	20.2	20.5	21.4	21.7	23.5	11.1	11.5	12.4	12.7	14.5
	6H	23.1	23.4	24.4	24.7	26.4	12.2	12.4	13.4	13.7	15.5
	8H	24.7	24.9	26.0	26.2	28.0	12.6	12.8	13.8	14.1	15.9
	12H	26.5	26.7	27.7	27.9	29.7	12.8	13.0	14.1	14.3	16.1
12H	4H	20.1	20.4	21.4	21.7	23.5	12.1	12.5	13.4	13.7	15.5
	6H	23.1	23.4	24.4	24.6	26.4	13.5	13.7	14.7	15.0	16.8
	8H	24.8	25.0	26.0	26.2	28.1	14.1	14.3	15.3	15.5	17.4

Maximum UGR = 29.7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835U-DMA-WHT-DIM-UNV UP ONLY_.IES

POLAR GRAPH



Maximum Candela = 1577.103 Located At Horizontal Angle = 0, Vertical Angle = 164

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

2 - Horizontal Cone Through Vertical Angle (164) (Through Max. Cd.)