

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #4792155668.03

[TESTLAB] UL, LLC

[ISSUEDATE] 2026-08-07

[TESTDATE] 3/17/2026

[MANUFAC] H E Williams Inc

[LUMCAT] CMR4AEG-L52-830-CA-DIM-UNV (A&E)

[LUMINAIRE] 2' x 4' multi-function recessed troffer with door frame; door

[MORE] frame has arrangement of curved diffused acrylic lenses

[OTHER] This test was performed using the calibrated photodetector method

[MORE] of absolute photometry.

[OTHER] The reported results were measured in a facility that meets the

[MORE] requirements of ANSI/IES LM-75-19. The device under test emits no

[MORE] detectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	105.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	1.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6703	6838	7018
55	6138	6461	6767
65	5295	5884	6200
75	3799	4551	4698
85	1479	1740	1587

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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>
0.0	4792.592	4792.592	4792.592	4792.592	4792.592
0.5	4793.496	4789.717	4790.907	4788.729	4787.172
1.0	4801.628	4786.307	4796.125	4784.786	4798.960
1.5	4797.152	4782.898	4790.127	4782.691	4793.046
2.0	4795.057	4778.585	4784.213	4788.358	4794.400
2.5	4791.031	4774.929	4780.310	4781.827	4785.201
3.0	4787.498	4781.337	4782.938	4772.420	4781.871
3.5	4790.250	4779.653	4772.464	4773.200	4786.841
4.0	4779.366	4769.836	4772.914	4768.887	4782.651
4.5	4776.777	4770.493	4761.002	4761.328	4770.740
5.0	4773.531	4765.562	4762.973	4752.949	4771.723
5.5	4768.724	4758.497	4755.414	4759.026	4766.382
6.0	4761.783	4751.348	4746.788	4743.745	4760.508
6.5	4749.747	4740.503	4746.171	4741.937	4752.825
7.0	4749.130	4739.066	4734.175	4734.131	4737.381
7.5	4739.970	4729.659	4727.357	4722.629	4733.765
8.0	4732.411	4721.033	4723.864	4714.947	4722.960
8.5	4716.309	4710.351	4709.773	4699.665	4713.059
9.0	4713.350	4702.792	4701.187	4693.297	4707.471
9.5	4707.105	4694.042	4687.590	4687.339	4693.257
10.0	4692.194	4683.484	4679.498	4672.428	4684.710
10.5	4674.408	4673.173	4669.226	4661.090	4668.362
11.0	4654.241	4656.825	4655.877	4648.066	4664.909
11.5	4655.634	4648.485	4639.444	4637.261	4646.999
12.0	4645.200	4636.080	4630.324	4626.457	4631.100
12.5	4635.422	4619.894	4621.738	4610.928	4618.695
13.0	4612.503	4606.584	4603.581	4600.000	4609.244
13.5	4601.945	4593.274	4590.311	4580.406	4602.792
14.0	4587.854	4581.689	4578.315	4563.973	4584.922
14.5	4575.612	4564.189	4558.844	4554.236	4561.918
15.0	4556.388	4547.060	4542.946	4536.366	4547.744
15.5	4547.678	4526.028	4525.980	4519.029	4521.989
16.0	4524.141	4510.500	4512.052	4503.664	4520.833
16.5	4513.336	4494.972	4493.649	4488.423	4494.707
17.0	4494.398	4477.225	4477.997	4466.363	4483.408
17.5	4474.804	4458.945	4456.471	4448.246	4461.882
18.0	4449.172	4438.447	4439.258	4433.415	4439.452
18.5	4439.558	4427.518	4421.922	4411.889	4414.888
19.0	4414.993	4398.354	4396.577	4395.743	4398.248
19.5	4399.465	4382.332	4380.431	4375.408	4378.693
20.0	4371.491	4362.243	4357.057	4355.606	4353.511
20.5	4360.193	4339.774	4340.131	4335.271	4336.338
21.0	4321.171	4318.494	4314.539	4318.878	4318.384
21.5	4307.778	4299.063	4294.203	4292.505	4294.517
22.0	4290.194	4276.470	4270.706	4269.171	4277.877
22.5	4268.505	4252.192	4248.276	4248.712	4246.534
23.0	4238.970	4230.666	4230.979	4229.444	4236.055
23.5	4221.510	4207.826	4203.416	4204.796	4212.351
24.0	4198.260	4182.234	4182.176	4178.053	4188.359
24.5	4165.850	4158.613	4156.994	4156.813	4159.645
25.0	4144.447	4133.678	4133.250	4130.317	4138.405
25.5	4122.387	4109.400	4108.068	4110.145	4113.510
26.0	4096.919	4084.464	4082.105	4087.468	4092.434
26.5	4067.671	4058.749	4054.828	4059.287	4063.472

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	4045.364	4032.786	4036.874	4034.515	4038.577
27.5	4016.239	4005.099	4005.655	4011.591	4022.224
28.0	3985.924	3977.289	3973.655	3987.476	3986.815
28.5	3961.932	3951.449	3953.483	3961.267	3962.329
29.0	3932.684	3925.487	3922.797	3936.905	3944.662
29.5	3906.188	3896.115	3897.901	3904.658	3910.977
30.0	3878.501	3866.990	3871.034	3884.362	3890.188
30.5	3847.938	3842.342	3846.263	3856.838	3866.607
31.0	3822.633	3810.218	3818.082	3829.725	3832.922
31.5	3789.195	3782.941	3786.615	3802.611	3811.846
32.0	3764.013	3754.227	3757.653	3776.401	3785.923
32.5	3728.480	3723.294	3728.692	3752.039	3758.686
33.0	3702.394	3693.265	3704.454	3721.517	3727.506
33.5	3671.174	3662.455	3669.331	3689.927	3698.421
34.0	3639.831	3631.646	3642.998	3670.041	3673.278
34.5	3608.241	3600.713	3613.503	3637.013	3646.822
35.0	3576.118	3569.123	3583.637	3612.652	3622.994
35.5	3545.965	3536.342	3554.018	3581.595	3589.842
36.0	3513.842	3506.724	3524.276	3553.044	3564.330
36.5	3480.937	3474.353	3493.877	3525.273	3531.959
37.0	3447.910	3443.420	3462.163	3494.997	3503.407
37.5	3414.472	3409.735	3431.764	3468.294	3482.741
38.0	3377.378	3378.022	3401.898	3435.923	3448.276
38.5	3349.073	3344.337	3370.185	3410.781	3421.819
39.0	3313.417	3314.184	3338.471	3379.067	3391.050
39.5	3279.199	3277.748	3306.511	3351.830	3360.937
40.0	3243.829	3246.691	3275.455	3322.088	3332.509
40.5	3209.487	3211.569	3242.303	3288.813	3303.834
41.0	3176.459	3179.075	3211.904	3260.509	3268.712
41.5	3138.338	3144.486	3180.067	3230.643	3236.751
42.0	3103.462	3110.020	3146.916	3196.835	3206.885
42.5	3069.777	3074.117	3112.984	3167.092	3175.706
43.0	3033.217	3041.746	3083.365	3138.007	3150.440
43.5	2998.752	3005.967	3048.119	3105.390	3121.355
44.0	2963.629	2971.378	3016.282	3072.115	3088.080
44.5	2927.726	2936.912	2984.445	3043.687	3059.405
45.0	2892.603	2901.666	2950.513	3011.193	3028.349
45.5	2856.043	2865.106	2917.239	2982.765	2994.664
46.0	2818.168	2830.517	2883.430	2950.271	2965.455
46.5	2783.169	2795.518	2850.936	2917.243	2933.618
47.0	2750.675	2758.834	2817.004	2885.406	2901.124
47.5	2712.267	2722.274	2783.196	2852.008	2869.821
48.0	2676.897	2687.808	2747.950	2819.637	2836.916
48.5	2640.337	2651.782	2714.142	2784.391	2803.889
49.0	2603.777	2615.878	2681.524	2755.306	2772.175
49.5	2563.931	2579.318	2647.058	2720.307	2742.309
50.0	2528.561	2543.949	2613.127	2687.032	2709.405
50.5	2490.687	2508.292	2578.004	2655.319	2677.158
51.0	2452.689	2470.171	2542.758	2619.539	2641.255
51.5	2414.034	2432.706	2507.512	2583.759	2609.008
52.0	2376.569	2395.489	2473.170	2552.456	2574.542
52.5	2339.228	2359.709	2437.924	2520.332	2542.419
53.0	2300.040	2321.588	2403.458	2481.924	2506.515
53.5	2262.699	2285.685	2368.993	2449.430	2474.802
54.0	2223.140	2249.124	2332.309	2412.213	2437.831
54.5	2182.266	2210.222	2295.092	2377.090	2403.489

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PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

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55.0	2148.458	2173.128	2261.407	2340.120	2368.490
55.5	2108.899	2135.007	2224.189	2305.778	2334.395
56.0	2070.120	2098.447	2189.847	2270.655	2298.616
56.5	2032.245	2061.763	2151.849	2234.342	2262.055
57.0	1993.590	2024.422	2116.070	2197.905	2226.770
57.5	1954.812	1987.862	2079.509	2159.373	2188.485
58.0	1915.376	1950.521	2042.416	2123.060	2149.543
58.5	1875.283	1911.742	2005.075	2087.404	2112.696
59.0	1838.066	1875.305	1969.295	2049.776	2077.410
59.5	1798.630	1835.870	1932.858	2012.806	2042.905
60.0	1758.414	1797.091	1895.107	1976.739	2004.868
60.5	1719.759	1759.216	1857.233	1938.578	1966.706
61.0	1680.775	1722.903	1821.700	1898.979	1927.107
61.5	1641.923	1683.344	1784.072	1859.914	1888.289
62.0	1602.224	1646.250	1747.635	1821.753	1846.842
62.5	1563.109	1606.938	1711.199	1781.497	1805.396
63.0	1526.664	1570.369	1673.324	1742.555	1765.263
63.5	1486.571	1531.386	1635.573	1701.642	1725.007
64.0	1446.478	1491.753	1595.727	1660.729	1682.903
64.5	1406.254	1452.703	1556.538	1619.659	1641.144
65.0	1365.644	1413.720	1517.473	1578.401	1599.040
65.5	1325.485	1374.933	1479.143	1540.162	1555.778
66.0	1285.326	1335.728	1439.421	1499.373	1516.147
66.5	1245.036	1297.110	1400.121	1457.113	1473.386
67.0	1204.956	1258.175	1360.165	1415.354	1429.577
67.5	1165.414	1219.282	1319.785	1371.389	1387.128
68.0	1125.111	1180.492	1279.258	1329.051	1344.257
68.5	1085.277	1141.635	1239.581	1287.103	1300.650
69.0	1045.550	1103.367	1199.259	1243.997	1256.776
69.5	1006.722	1064.913	1159.516	1201.824	1212.065
70.0	968.536	1027.100	1118.829	1158.377	1168.302
70.5	930.127	988.959	1078.138	1114.445	1124.744
71.0	891.300	951.027	1037.681	1071.418	1081.606
71.5	853.897	913.251	997.179	1029.396	1038.751
72.0	815.879	875.866	957.383	987.280	995.867
72.5	778.789	838.768	916.906	945.226	952.581
73.0	742.406	802.179	877.028	903.029	908.029
73.5	705.813	765.562	836.785	860.736	865.146
74.0	670.197	729.467	797.076	818.300	823.293
74.5	635.055	693.724	757.506	776.887	782.102
75.0	599.961	658.319	718.734	736.230	741.975
75.5	565.365	623.423	680.195	697.002	702.251
76.0	531.434	588.827	642.220	658.214	661.533
76.5	498.480	555.078	604.101	618.358	622.544
77.0	466.197	521.693	566.713	578.605	581.193
77.5	434.472	489.119	530.002	541.341	538.482
78.0	403.519	456.737	494.167	502.479	495.311
78.5	373.256	425.046	459.412	462.331	454.350
79.0	343.803	394.020	425.923	422.820	414.799
79.5	315.422	363.659	391.500	385.232	377.129
80.0	288.359	334.276	358.812	348.946	340.572
80.5	261.872	305.781	328.128	314.057	305.860
81.0	236.625	277.873	296.199	280.634	272.704
81.5	212.175	251.152	264.989	249.133	241.216
82.0	189.253	226.062	235.957	219.362	210.315
82.5	167.572	201.642	208.411	190.687	181.044

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PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	147.119	178.096	182.304	162.972	154.348
83.5	128.128	155.976	157.440	137.899	131.545
84.0	110.288	135.294	134.216	116.637	113.163
84.5	93.778	116.152	112.413	99.651	98.009
85.0	78.641	98.592	92.556	85.229	84.391
85.5	64.888	81.857	75.841	72.589	72.084
86.0	52.597	67.147	62.462	60.947	60.655
86.5	41.822	53.928	51.153	50.484	50.911
87.0	32.288	42.451	41.208	41.483	41.508
87.5	24.294	32.482	32.807	32.589	32.499
88.0	17.738	24.385	24.969	24.414	24.089
88.5	12.578	17.677	17.525	16.358	16.021
89.0	8.647	11.782	11.059	10.294	10.270
89.5	5.656	7.283	6.338	6.613	6.704
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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 PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1733.15	N.A.	13.80
0-30	3637.65	N.A.	29.00
0-40	5883.21	N.A.	47.00
0-60	10180.45	N.A.	81.30
0-80	12400.43	N.A.	99.00
0-90	12529.08	N.A.	100.00
10-90	12077.00	N.A.	96.40
20-40	4150.06	N.A.	33.10
20-50	6429.81	N.A.	51.30
40-70	5776.69	N.A.	46.10
60-80	2219.98	N.A.	17.70
70-80	740.53	N.A.	5.90
80-90	128.65	N.A.	1.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12529.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	452.07
10-20	1281.07
20-30	1904.5
30-40	2245.56
40-50	2279.75
50-60	2017.49
60-70	1479.45
70-80	740.53
80-90	128.65
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR4AEG-L52-830-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	18.3	19.9	18.7	20.2	20.5	18.9	20.5	19.3	20.8	21.2
	3H	19.8	21.3	20.2	21.6	22.0	20.6	22.1	21.0	22.4	22.8
	4H	20.3	21.7	20.7	22.0	22.4	21.2	22.5	21.6	22.9	23.3
	6H	20.6	21.8	21.0	22.2	22.6	21.4	22.7	21.8	23.1	23.5
	8H	20.6	21.8	21.0	22.2	22.6	21.5	22.7	21.9	23.1	23.5
	12H	20.6	21.8	21.0	22.2	22.6	21.5	22.6	21.9	23.0	23.4

UGR Viewed Endwise

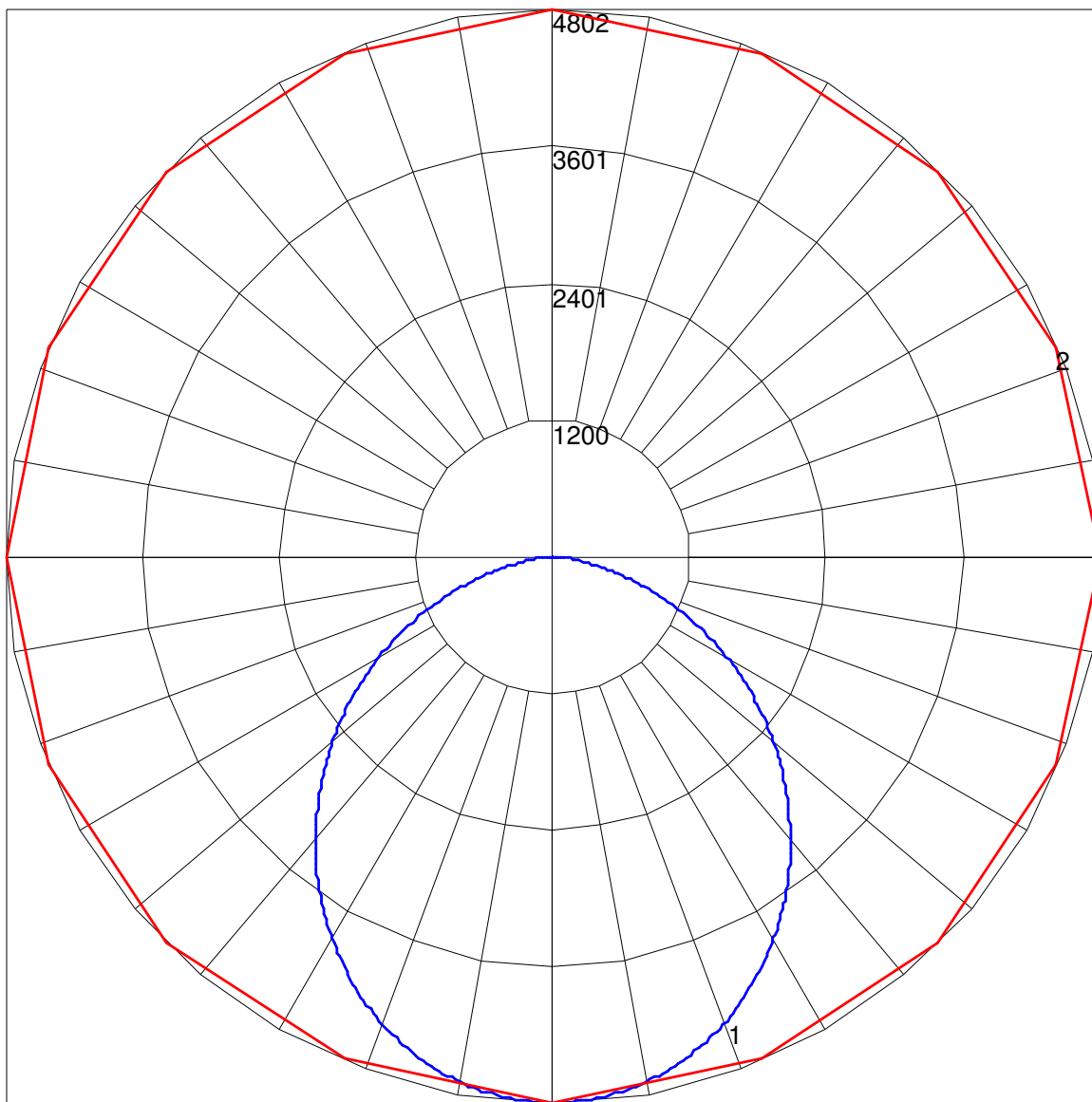
4H	2H	19.0	20.4	19.4	20.7	21.1	19.5	20.8	19.9	21.2	21.6
	3H	20.7	21.9	21.1	22.3	22.7	21.4	22.5	21.8	22.9	23.3
	4H	21.3	22.3	21.7	22.7	23.2	22.0	23.1	22.4	23.5	23.9
	6H	21.7	22.5	22.1	23.0	23.4	22.4	23.3	22.9	23.7	24.2
	8H	21.7	22.6	22.2	23.0	23.5	22.5	23.3	22.9	23.7	24.2
	12H	21.7	22.5	22.2	23.0	23.4	22.5	23.2	23.0	23.7	24.2

8H	4H	21.6	22.4	22.1	22.9	23.3	22.2	23.1	22.7	23.5	24.0
	6H	22.0	22.7	22.5	23.2	23.7	22.7	23.4	23.2	23.9	24.3
	8H	22.1	22.7	22.6	23.2	23.7	22.8	23.4	23.3	23.9	24.4
	12H	22.2	22.7	22.7	23.2	23.8	22.8	23.3	23.3	23.8	24.4

12H	4H	21.6	22.3	22.1	22.8	23.3	22.2	23.0	22.7	23.5	23.9
	6H	22.0	22.7	22.6	23.1	23.7	22.7	23.3	23.2	23.8	24.3
	8H	22.2	22.7	22.7	23.2	23.8	22.8	23.3	23.3	23.8	24.4

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 4801.628 Located At Horizontal Angle = 0, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)